UNIVERSITY OF ILLINOIS
LIBRARY

Class 331
Book P38
Volume 5

REMOTE STORAGE

Ja09-20M

William P. Lyman

Dup. 08
D. of D

D. 07.

Digitized by the Internet Archive
in 2016

https://archive.org/details/annualreportofse05penn

L. C.

ANNUAL REPORT

OF THE

Secretary of Internal Affairs

OF THE

COMMONWEALTH OF PENNSYLVANIA

PART III.

INDUSTRIAL STATISTICS.

VOL. V.

1876-7.

HARRISBURG:
LANE S. HART,
STATE PRINTER AND BINDER.
1878.

331
P37
v. 5

REMOTE STORAGE

REPORT

OF THE

BUREAU OF INDUSTRIAL STATISTICS.

COMMUNICATION.

Department of Internal Affairs,
Bureau of Industrial Statistics,
Harrisburg, *March 1, 1878.*

Honorable Wm. McCandless,
Secretary of Internal Affairs:

Sir: I have the honor to present herewith the Fifth Annual Report of the Bureau of Industrial Statistics.

In presenting the third volume, your attention was called to the fact that the Legislature had seriously interfered with the Bureau by refusing an appropriation for such expenses as were necessary to enable the statistics to be collected.

In the performance of my duties I have called to my aid such assistance as could be obtained without any expenditure of money.

To attempt to gather the statistics of Pennsylvania by correspondence is an unpleasant as well as unprofitable task, but I think I have exhausted every source of information obtainable in that manner. Massachusetts is progressive, and her statistics are gathered by personal visitation. The result is a volume creditable alike to the officers of the Bureau and the State. Personal visitation is necessary, and Pennsylvania will never issue a complete statistical report, until her law-makers make provision to have the work thoroughly done. It would be far better to discontinue the Bureau than to allow it to drag along at a snail's pace, and present only such facts and figures as can be obtained by mail from persons, in different sections, who will take the time and trouble to voluntarily answer the questions sent them.

I feel that I am placed in an equivocal position. The public expect a full and concise statement of every industry, and are disappointed when they find but partial reports presented. The press comes to the front and

Library of Congress
156711

criticizes harshly, without going to the foundation and giving a true statement of the case. Numerous letters have been received stating that the previous reports were well compiled, and reflected credit on the Bureau; but I know that Pennsylvania could make a better exhibit if the means necessary to prosecute the work were placed at the disposal of the Bureau.

You will find this report the most complete ever issued by this State; but it is not what it should be, nor what it could have been had arrangements been made for personal visitation. It is the best that could be obtained by correspondence; and you will agree with me that it required considerable labor to prepare it.

I am under obligations to several persons, whose names appear in connection with their contributions, for valuable and gratuitous assistance.

Very respectfully,

W. HAYES GRIER,
Chief of Bureau.

STATE GOVERNMENT.

GOVERNOR AND HEADS OF DEPARTMENTS, WITH THEIR PLACES OF RESIDENCE IN HARRISBURG.

Governor.

John F. Hartranft, Montgomery county, Executive Mansion, Front street above Pine.

Lieutenant Governor.

John Latta, Westmoreland county, Bolton's Hotel.

Private Secretary to Governor.

C. N. Farr, Berks county, No. 217 Pine street.

Secretary of the Commonwealth.

John B. Linn, Miss Allen's, No. 404 North Third street.

Deputy Secretary of the Commonwealth.

Thomas McCamant, No. 301 Forster street.

Chief Clerk.

Samuel A. Losch, Lochiel Hotel.

Attorney General.

George Lear, Bucks county, Lochiel Hotel.

Deputy Attorney General.

Lyman D. Gilbert, No. 203 North Front street.

Auditor General.

William P. Schell, Bedford county, Jones House.

Chief Clerk.

Edward Herrick, Bradford county, Bolton's Hotel.

State Treasurer.

Amos C. Noyes, Clinton county, Bolton's Hotel.

Cashier.

J. Blake Walters, Clearfield county, No. 211 Walnut street.

Secretary of Internal Affairs.

William McCandless, Philadelphia, United States Hotel.

Deputy Secretary of Internal Affairs.

J. Simpson Africa, Huntingdon county, Bolton's Hotel.

CHIEF OF BUREAU OF INDUSTRIAL STATISTICS.

W. Hayes Grier, Lancaster county, United States Hotel.

SUPERINTENDENT OF PUBLIC INSTRUCTION AND SUPERINTENDENT OF SOLDIERS' ORPHAN SCHOOLS.

J. P. Wickersham, Lancaster county.

DEPUTY SUPERINTENDENT OF PUBLIC INSTRUCTION.

Henry Houck, Lebanon county, Brady House.

Chief Clerk.

James L. Paul, Westmoreland county, No. 609 North Front street.

ADJUTANT GENERAL.

James W. Latta, Philadelphia, Lochiel Hotel.

Chief Clerk.

George C. Kelley, Union county, No. 313 Market street.

INSURANCE COMMISSIONER.

J. Montgomery Forster, Dauphin county, No. 303 South Front street.

DEPUTY COMMISSIONER.

L. R. Boggs, Huntingdon county, Lochiel Hotel.

STATE LIBRARIAN.

Reverend C. L. Ehrenfeld, No. 1104 Ridge avenue.

SUPERINTENDENT OF PUBLIC PRINTING AND BINDING.

J. W. Jones, Dauphin county, South Third above Chestnut street.

STATE PRINTER.

Lane S. Hart, Montgomery county, No. 20 Fourth street.

PRINTER OF LEGISLATIVE RECORD.

Charles H. Bergner, Third and Market Streets.

Office of the Secretary of the Commonwealth.

Secretary—J. B. Linn, Centre county, Miss Allen's, 404 North Third st.
Deputy Secretary—Thomas McCamant, Blair county, No. 301 Forster st.
Chief Clerk—Samuel A. Losch, Schuylkill county, Lochiel Hotel.
Corporation Clerk—R. T. Beatty, Perry county, No. 512 North Third st.
Clerks—B. F. Chandler, Dauphin county, Bolton's Hotel.
S. M. Fridy, Lancaster county, Mountville, Pa.
J. M. Jordan, Bedford county, No. 711 North Third street.
H. H. Hartranft, Lycoming county, No. 410 North Third street.
M. N. Cutler, Erie county, Crescent street.
George S. Holmes, Allegheny county, No. 313 Market street.
George W. Colton, Erie county, Jones House.
Messenger—B. P. Thompson, Montgomery county, corner Forster and Grand streets.

Department of Internal Affairs.

Secretary—William McCandless, Philadelphia, United States Hotel.
Deputy Secretary—J. Simpson Africa, Huntingdon county, Bolton's Hotel.
Chief of the Bureau of Industrial Statistics—W. Hayes Grier, Lancaster county, Brady House.
Clerks—Hamilton Alricks, junior, Dauphin county, Bolton's Hotel.
James Atwell, Philadelphia, Brady House.
Albert D. Boileau, Philadelphia, Brady House.
John W. Brown, Dauphin county, No. 210 North Second street.
John Christy, Blair county, Brady House.
S. Larkin Fairlamb, Delaware county, No. 607 Boas street.
R H. Foster, (Bureau of Statistics,) Centre county, No. 118 West State street.
S. George, Lycoming county, No. 216 North street.
D. W. Henderson, (Bureau of Statistics,) Philadelphia, United States Hotel.
Richard McSherry, Adams county, Brady House.
T. O'Leary, junior, Allegheny county, No. 907 North Third.
A. J. Randall, Schuylkill county, Myrtle avenue.
John L. Sexton, junior, (Bureau of Statistics,) Tioga county, No. 226 Herr street.
N. C. Wilson, Mifflin county, Lochiel Hotel.
Messengers—Michael Bradley, Philadelphia, Brady House.
G. W. P. Davis, (Bureau of Statistics,) Dauphin county, No. 1314 Two-and-a-half street.
Watchman—John P. Ryan, Northampton county, Brady House.

Auditor General's Office.

Auditor General—William P. Schell, Bedford county, Jones House.
Chief Clerk—Edward Herrick, Bradford county, Bolton's Hotel.
Corporation Clerk—Edward F. Kerr, Bedford county, Jones House.
Clerks—Benjamin M. Nead, Franklin county, No. 255 North street.
John McMurray, Jefferson county, No. 1416 Two-and-a-half st.
William L. Sansom, Indiana county, No. 1305½ Two-and-a-half street.
Frank G. Churchill, Tioga county, Jones House.
E. L. Everhart, Huntingdon county, Jones House.
M. S. Shotwell, Dauphin county, Jones House.
W. Dieffenbach, Columbia county, Second street.
E. L. Acker, Montgomery county.
A. J. Sanderson, Lancaster county.
Messenger—C. Ben Johnson, Luzerne county, Franklin House.
Watchman—Thomas Tidman, Erie county, Fifth and Market streets.

Treasury Department.

State Treasurer—Amos C. Noyes, Westport, Clinton county, Bolton's Hotel.
Cashier—J. Blake Walters, Clearfield county, No. 211 Walnut street.

Clerks—W. J. Bayard, Greene county, United States Hotel.
J. P. Egan, Pittsburgh, No. 818 Third street.
Robert J. Fleming, Lock Haven, Bolton's Hotel.

Messenger—Samuel J. MacMullan, Lycoming county, United States Hotel.

Night Watchman—W. P. Nichols, Dauphin county, No. 1720 Ridge ave.

Department of Public Instruction.

Superintendent of Public Instruction—J. P. Wickersham, Lancaster co.

Deputy Superintendents of Public Instruction—Henry Houck, Lebanon county; W. A. Lindsey, Cumberland county, United States Hotel.

Financial Clerk—George S. Jones, Philadelphia, Miss Allen's, No. 404 Third street.

Recording Clerk—J. M. Beistle, Front street, near Boas.

Statistical Clerk—John T. Boyle, Two and-a-Half street, near Herr.

Messenger—Robert A. Lucas, Centre county, 911 North Third street.

Department of Soldiers' Orphan Schools.

Spuerintendent—J. P. Wickersham.

Inspector and Examiner—Columbus Cornfroth, McKean county.

Assistant Inspector and Examiner—Mrs. Elizabeth E. Hutter, Philad'a.

Chief Clerk—James L. Paul, Westmoreland county.

Clerk—Edmund R. Sutton, Indiana county.

Attorney General's Department.

Attorney General—George Lear, Bucks county, Lochiel.

Deputy Attorney General—Lyman D. Gilbert, Dauphin county, No. 203 North Front street.

Clerk—George F. Ross, Mifflin county, 313 Market street.

Adjutant General's Department.

Adjutant General—James W. Latta, Philadelphia, Lochiel.

Chief Clerk—George C. Kelly, No. 313 Market street.

Clerks—Joseph Liness, 133 Herr street.
William K. Russell, No. 313 Market street.

Messenger—Thomas Numbers, No. 317 Market street.

National Guard.

Keeper of State Arsenal—Charles W. Diven, Fifteenth and Forster streets.

Commander-in-Chief—Governor John F. Hartranft.

Adjutant General, Paymaster General, and Acting Quartermaster General—Major General James W. Latta.

Assistant Adjutant General—Colonel D. Stanley Hassinger.

Inspector General—Brigadier General John D. Bertolette.

Judge Advocate General—Brigadier General George F. Smith.

Surgeon General—Brigadier General Lewis W. Read.

Aides-de-Camp—Colonels John W. Schall, John B. Compton, Charles S. Greene, Jacob D. Laciar, Joseph F. Tobias, J. K. Haffey, William R. Hartshorne, George H. North, Thomas M. Walker, Aaron K. Dunkel, Charles J. Arms, George W. Grant, William W. Brown, Edward B. Young, Stanley Woodward, Richard R. Campion, William L. Elkins, and P. Lacey Goddard.

Insurance Department.

Insurance Commissioner—J. M. Forster, Dauphin county, No. 303 South Front street.

Deputy Insurance Commissioner—L. R. Boggs, Huntingdon county, Lochiel.

Clerks—R. A. Hazleton, Bradford county, No. 253 North street.
Smith Curtis, Beaver county, No. 253 North street.

Messenger—H. B. Weand, Montgomery county, corner Broad and Penn.

State Library.

State Librarian—Rev. C. L. Ehrenfeld, No. 1104 Ridge avenue.

Assistant State Librarian—Joseph R. Orwig, No. 313 North Second st.

Mechanics' High School.

President—W. T. Hildrup.

Secretary—W. Hayes Grier.

Trustees—John A. Grier, Isaac Seltzer, A. Wheeler, Jacob Reese, John Oliphant, W. T. Hildrup, George Coray, George F. Barker, Henry F. Snyder, John F. Hartranft, *ex officio*, J. P. Wickersham, *ex officio*, W. Hayes Grier, *ex officio*.

Board of Public Charities.

President—G. Dawson Coleman, Lebanon.

General Agent and Secretary—Diller Luther, Reading, Berks county.

Statistician—A. J. Ourt, Philadelphia.

Members of the Board.

G. Dawson Coleman, Lebanon, Lebanon county.
Hiester Clymer, Reading, Berks county.
William Bakewell, Pittsburgh, Allegheny county.
A. C. Noyes, Westport, Clinton county.
George Bullock, Norristown, Montgomery county.
Francis Wells, Philadelphia.
Mahlon H. Dickinson, Philadelphia.

State Agricultural College, Centre County, Pa.

Board of Trustees.

Governor of the Commonwealth.
Secretary of the Commonwealth.
General James A. Beaver, *President.*
James Calder, D. D. *Secretary.*
Prof. John Hamilton, *Treasurer.*
George Scott, Catawissa.
A. Wilson Taylor, Indiana.

Daniel Kaine, Uniontown.
Francis Jordan, Harrisburg.
James Kelley, Pittsburgh.
William T. Hildrup, Harrisburg.
William H. Holstein, Bridgeport.
John H. Orvis, Bellefonte.
J. L. Darlington, Chester.

Board of Commissioners of Second Geological Survey.

Governor John F. Hartranft, *ex officio* President of the Board.
Secretary of the Board—John B. Pearse, Philadelphia.
State Geologist—J. Peter Lesley, Philadelphia.
Ario Pardee, Hazleton.
W. A. Ingham, Philadelphia.
Henry S. Eckert, Reading.
Henry McCormick, Harrisburg.
James Macfarlane, Towanda.
John B. Pearse, Philadelphia.
R. V. Wilson, M. D., Clearfield.
Hon. D. J. Morrell, Johnstown.
Henry W. Oliver, Pittsburgh.
Samuel Q. Brown, Pleasantville.

Board of Pardons.

Lieutenant Governor John Latta.
Secretary of Commonwealth John B. Linn.
Secretary of Internal Affairs William McCandless.
Attorney General George Lear.
Recorder—Chester N. Farr.

Fishery Commissioners.

Benjamin L. Hewit, Blair county.
Howard J. Reeder, Northampton county.
James Duffy, Lancaster county.

Officers State Agricultural Society.

President—John W. Hammond.

Vice Presidents—James A. McCrea, George Blight, A. L. Kennedy, William S. Bissell, A. D. Levering, D. H. Branson, William S. Holstein, Tobias Barto, S. S. Spencer, Daniel H. Neiman, D. J. Waller, Ira Tripp, J. S. Keller, John A. Smull, James E. Carmalt, F. A. Allen, John A. Lemon, John S. Miller, Daniel O. Gehr, L. A. Mackey, George Rhey, John Murdoch, junior, William W. Speer, John McDowell, J. B. Lawson, J. D. Kirkpatrick, C. M. Reed.

Additional Members Executive Committee—A. Wilhelm, Abner Rutherford, John H. Ziegler, William Taylor, R. S. Allen.

Ex-Presidents Members of the Board—Frederick Watts, D. Taggert, Jacob S. Haldeman, Thomas P. Knox, A. Boyd Hamilton, Amos E. Kapp, John C. Morris, J. R. Eby.

Treasurer—John B. Rutherford.
Corresponding Secretary—Elbridge McConkey.
Recording Secretary—D. W. Seiler.
Chemist and Geologist—S. S. Haldeman.
Assistant Chemist and Geologist—Hugh Hamilton.
Librarian—William H. Egle, M. D.

State Board of Agriculture.

President—Governor John F. Hartranft.
Vice Presidents—Professor J. P. Wickersham.
Colonel James Young.
M. C. Beebe.
Executive Committee—Governor John F. Hartranft.
John P. Edge, Chester.
John L. George, Washington.
E. G. Fahnestock, Adams.
H. M. Engle, Lancaster.
Professor D. Wilson, Juniata.
Professor J. Hamilton, Centre.
W. S. Roland, York.
A. Robinson, Mercer.
Thomas J. Edge, Chester.
Advisory Committee—H. M. Engle, Lancaster.
Professor D. Wilson, Juniata.
W. S. Roland, York.
Secretary—Thomas J. Edge, Chester.
Geologist—Professor J. P. Lesley, State Geologist.

Members of Board.

W. G. Moore, Berks.
T. Banks, Blair.
M. C. Beebe, Crawford.
J. Hamilton, Centre.
C. A. Mullin, Cumberland.
H. M. Engle, Lancaster.
G. W. Hood, Indiana.
J. B. Smith, Luzerne.
J. McFarland, Northumberland.
W. S. Roland, York.
S. F. Wilson, Tioga.
D. H. Foresman, Lycoming.
C. Gilbert, Franklin.
L. J. Culver, Bradford.
J. H. Hiller, Warren.
D. Wilson, Juniata.
J. C. Morris, Susquehanna.
E. G. Fahnestock, Adams.
J. S. Keller, Schuylkill.
R. S. Sterling, Beaver.
W. A. Yeakle, Montgomery.
A. Robinson, Mercer.
J. W. Shriner, Union.
E. Reeder, Bucks.
Thomas J. Edge, Chester.

Board of Revenue Commissioners.

W. P. Schell, Auditor General.
Amos C. Noyes, State Treasurer.
J. B. Linn, Secretary of the Commonwealth.

MEMBERS OF THE SENATE OF PENNSYLVANIA.

PHILADELPHIA.

First district, 1st, 2d, 26th, and 30th wards—George Handy Smith, R., 1514 South Fifth street.

Second district, 3d, 4th, 5th, 6th, and 11th wards—* David A. Nagle, D., 230 South Fifth street.

Third district, 16th, 17th, 18th, and 20th wards—John Lamon, R., 1303 Marlboro' street.

Fourth district, 21st, 22d, 24th, and 27th wards—Horatio Gates Jones, R., 133 South Fifth street.

Fifth district, 15th, 28th, and 29th wards—John E. Reyburn, R., 1820 Spring Garden street.

Sixth district, 7th, 8th, and 9th wards—Aaron K. Dunkel, R., office *Sunday Republic.*

Seventh district, 10th, 12th, 13th, and 14th wards—John C. Grady, R., 243 South Sixth street.

Eighth district, 19th, 23d, and 25th wards—Wm. J. Newell, R., 1809 Richmond street.

IX. DELAWARE.

Thomas V. Cooper, R., Media.

X. BUCKS.

Harman Yerkes, D., Doylestown.

XI. BERKS.

Daniel Ermentrout, D., Reading.

XII. MONTGOMERY.

Jones Detwiler, D., Blue Bell P. O.

XIII. LANCASTER.

Amos Mylin, R., Lancaster City.

XIV. LANCASTER.

P. J. Roebuck, R., Litiz.

XV. DAUPHIN.

A. J. Herr, R., Harrisburg.

XVI. LEHIGH.

Evan Holben, D., Allentown.

XVII. LEBANON.

George P. Meily, R., Jonestown.

XVIII. NORTHAMPTON.

David Engleman, D., Easton.

XIX. CHESTER.

James B. Everhart, R., West Chester.

XX. LUZERNE.

G. B. Seamans, R., Pleasant Valley.

XXI. LUZERNE.

E. C. Wadhams, R., Wilkesbarre.

XXII. MONROE, PIKE, AND CARBON.

Charlton Burnett, D., Stroudsburg, Monroe county.

---

* Deceased.

XXIII. BRADFORD AND WYOMING.

William T. Davies, R., Towanda, Bradford county.

XXIV. LYCOMING, MONTOUR, SULLIVAN, AND COLUMBIA.

Robert P. Allen, D., Williamsport, Lycoming county.

XXV. TIOGA, POTTER, AND McKEAN

C. H. Seymour, R., Wellsboro', Tioga county.

XXVI. SUSQUEHANNA AND WAYNE.

Eugene B. Hawley, D., Montrose, Susquehanna county.

XXVII. UNION, SNYDER, AND NORTHUMBERLAND.

A. H. Dill, D., Lewisburg, Union county.

XXVIII. YORK.

H. G. Bussey, D., Shrewsbury.

XXIX. SCHUYLKILL.

Luther R, Keefer, R., Cressona.

XXX. SCHUYLKILL.

William L. Torbert, IND. D., Girard Manor.

XXXI. PERRY, MIFFLIN, AND JUNIATA.

David M. Crawford, D., Mifflintown, Juniata county.

XXXII. CUMBERLAND AND ADAMS.

James Chestnut, D., Shippensburg, Cumberland county.

XXXIII. FRANKLIN AND HUNTINGDON.

Horatio G. Fisher, R., Huntingdon, Huntingdon county.

XXXIV. CLINTON, CLEARFIELD, AND CENTRE.

S. R. Peale, D., Lock Haven, Clinton county.

XXXV. BLAIR AND CAMBRIA.

John A. Lemon, R., Hollidaysburg, Blair county.

XXXVI. SOMERSET, BEDFORD, AND FULTON.

E. D. Yutzy, R., Ursina, Somerset county.

XXXVII. INDIANA AND JEFFERSON.

Thomas St. Clair, R., Indiana, Indiana county.

XXXVIII. CAMERON, ELK, CLARION, AND SOMERSET.

William L. Corbett, D., Clarion, Clarion county.

XXXIX. WESTMORELAND.

James C. Clarke, D., Greensburg.

XL. FAYETTE AND GREENE.

James W. Hays, D., Harvey's, Greene county.

XLI. BUTLER AND ARMSTRONG.

John M. Greer, R., Butler, Butler county.

XLII. ALLEGHENY.

Hugh McNeill, R., Allegheny City.

XLIII. ALLEGHENY.

Joseph M. Gazzam, R., Pittsburgh.

XLIV. Allegheny.

John C. Newmyer, R., 127 Fifth avenue, Pittsburgh.

XLV. Allegheny.

John Gilfillan, R., Upper St. Clair.

XLVI. Beaver and Washington.

George V. Lawrence, R., Monongahela City, Washington county.

XLVII. Lawrence and Mercer.

George W. Wright, R., Mercer, Mercer county.

XLVIII. Warren and Venango.

Charles W. Stone, R., Warren, Warren county.

XLIX. Erie.

Henry Butterfield, R., Erie.

L. Crawford.

John Fertig, D. Titusville.

Republicans,	31
Democrats,	18
Independent Democrat,	1

Officers of the Senate.

President—John Latta, Greensburg.
President pro tem.—John C. Newmyer, 127 Fifth avenue, Pittsburgh.
Chief Clerk—Thomas B. Cochran, Lancaster.
Journal Clerk—Lucius Rogers, Smethport, McKean county.
Reading Clerk—E. W. Smiley, Franklin, Venango county.
Message Clerk—George Pearson, Mercer county.
Transcribing Clerks—B. F. Butterfield, Erie county.
S. A. Smith, Indiana county.
Librarian—Sullivan S. Child, Dauphin county.
Sergeant-at-Arms—Jeremiah Cromer, Fulton county.
Door Keeper—J. J. Long, Washington county,
Messenger—E. A. Coryell, Philadelphia.
Postmaster—G. W. Leatherberry, Philadelphia.

MEMBERS OF THE HOUSE OF REPRESENTATIVES.

Philadelphia.

First district, 1st ward—William S. Douglass, R., 523 Moore street.
William Graham, R., 1522 South Ninth street.
Second district, 2d ward—John Holland, D., 1016 Carpenter street.
Richard H. Lodge, D., 1103 South Tenth street.
Third district, 3d ward—James L. Marshall, D., 734 Passyunk avenue.
Fourth district, 4th ward—James J. Monaghan, D., 708 South Sixth street.
Fifth district, 5th ward—Emile J. Petroff, R., 520 South Fourth street.
Sixth district, 6th ward—Hugh Mackin, D., 523 Race street.
Seventh district, 7th ward—William H. Patterson, R., 1901 South street.
William J. Donaldson, R., 508 South Twelfth street.
Eighth district, 8th ward—Harry H. Shantz, R., 1004 Chestnut street.
Ninth district, 9th ward—John Cunningham, R., 9 North Nineteenth street.
Tenth district, 10th ward—George W. Hall, R., 1131 Arch street.
Eleventh district, 11th ward—Albert Crawford, D., 131 Noble street.
Twelfth district, 12th ward—Charles R. Gentner, D., 314 Brown street.
Thirteenth district, 13th ward—John H. Kennedy, R., 816 Poplar street.
Fourteenth district, 14th ward—James Devereux, R., 1002 Nectarine street.
Fifteenth district, 15th ward—Henry Huhn, R., 802 North Sixteenth street.
George W. Buckman, R., 1729 Fairmount avenue.
James Bigger, R., 2517 Hamilton street.

Sixteenth district, 16th ward—Abram Jacoby, r., 328 George street.
Seventeenth district, the 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, and 14th divisions of the 17th ward—John E. Faunce, d., 1225 North Fifth street.
Eighteenth district, the 1st, 2d, 3d, and 4th divisions of the 17th and 18th wards—
George A. Bakeoven, r., 829 East Girard avenue.
Josiah N. Kochersperger, r., 440 East Girard avenue.
Nineteenth district, 19th ward—William Ringgold, r., 2117 North Fifth street.
Robert Gillespie, r., 2448 Kensington avenue.
J. B. McCleery, r., 324 Moore street, 31st ward.
Twentieth district, 20th ward—Harry M. Quirk, r., 1239 Stiles street.
Francis A. Osbourn, r., 1315 Jefferson street.
Twenty-first district, 21st and 28th wards—Josephus Yeakel, r., Manayunk, Phila.
Twenty-second district, 22d ward—Joseph M. Hill, r., Adams above Rittenhouse st.
Twenty-third district, 23d ward—Charles B. Salter, r., Frankford.
Twenty-fourth district, 24th ward—* James Newell, r., 606 Preston street.
Twenty-fifth district, 25th ward—George L. Pallatt, d., 3255 York avenue, Rising Sun P. O.
Twenty-sixth district, 26th ward—Harry O'Neill, r., 2015 Catharine street.
Joseph R. Souder, r., 1314 South Tenth street.
Twenty-seventh districl, 27th ward—John W. Leigh, r., 3801 Spruce street.
Twenty-eighth district, 29th ward—Alfred C. Neall, r., 2228 Bolton street.

ADAMS.

William A. Martin, d., Arendtsville.
William J. McClure, d., New Oxford.

ALLEGHENY.

First district—Henry M. Long, r., Allegheny City.
William H. Graham, r., Allegheny City.
James D. Walker, r., Allegheny City.
Second district—Robert S. Frazer, r., 61 Grand street, Pittsburgh.
William J. Flinn, r., 421 Fifth avenue, Pittsburgh.
Third district—Peter Zern, d., 400 Penn avenue, Pittsburgh.
Fourth district—Joseph Mitchell, r., Pittsburgh.
Samuel McElroy, junior, 16th r., ward, Pittsburgh.
Adam H. Weaver, r., 36th ward, Pittsburgh.
J. Martin Schafer, r., 32 Eleventh street, South Side, Pittsburgh.
Fifth district—Joseph A. Stone, r., Pittsburgh.
William H. Magill, r. Rural Ridge.
Sixth district—Vincent Miller, r., McDonald Station, Washington county.
William Hill, r., Mansfield Valley, Allegheny county.

ARMSTRONG.

Andrew W. Bell, r., Brady's Bend.
William G. Heiner, r., Kittanning.

BEAVER.

John Caughey, r., Beaver.
Gilbert L. Eberhart, r., New Brighton.

BEDFORD.

Geo. H. Spang, d., Bedford.
William P. Schell, d., Bedford.

BERKS.

First district—Jacob Miller, d., 817 Franklin street, Reading.
Jeremiah H. Boone, r., Reading.
Second district—Nicholas Andre, d., Colebrookdale.
Joseph B. Conrad, d., Bernville.
George D. Schaeffer, d., Fleetwood.
Stephen J. Smith, d., Hamburg.

BLAIR.

David M. Jones, r., Tyrone.
Daniel Shock, r., Claysburg, Sarah P. O.

BRADFORD.

E. Reed Myer, r., Myersburg.
James Foster, r., Towanda.
John F. Gillett, r., Gillett's Station.

BUCKS.

James W. Carver, d., Erwinna.
Legrand Leaw, d., Attleborough.
Hiram Scarborough, d., New Hope.
Henry C. Moore, d., Sellersville.

---

* Deceased.

BUTLER.

R. A. Mifflin, R., North Hope.
William Irvine, R., Breakneck.

CAMBRIA.

John Downey, D., Johnstown.
James J. Thomas, D., Carrolltown.

CAMERON.

John Brooks, R., Sinnemahoning.

CARBON.

J. C. Kramer, D., Mauch Chunk.
William M. Rapsher, R., Lehighton.

CENTRE.

Wm. K. Alexander, D., Millheim Centre.
James F. Weaver, D., Milesburg.

CHESTER.

Samuel Butler, R. Lionville.
William T. Fulton, R., Oxford.
Jesse Matlack, R., Milltowu.
John P. Edge, R., Downingtown.

CLARION.

Joseph A. Summerville, D., New Athens.
Marcus L. Lockwood, D., St. Petersburg.

CLEARFIELD.

Aaron C. Tate, D., Clearfield.

CLINTON.

A. J. Quigley, D., Youngwomanstown.

COLUMBIA.

E. J. McHenry, D., Stillwater.
D. S. Brown, D., Mainville.

CRAWFORD.

S. H. Findley, R., Atlantic.
W. B. Roberts, R., Titusville.
C. W. Tyler, R., Meadville.
O. O. Potter, R., Mosiertown.

CUMBERLAND.

Samuel A. Bowers, D., Carlisle.
Samuel W. Means, D., Shippensburg.

DAUPHIN.

First district—Andrew K. Black, R., Harrisburg.
Second district—Jos. H. Nisley, R., Middletown.
Anton F. Engelbert, D., Wiconisco.

DELAWARE.

*O. F. Bullard, R., Media.
Y. S. Walter, R., Chester.

ELK.

Charles R. Earley, D., Ridgway.

ERIE.

First district—Wm. Henry, D., Erie.
Second district—S. F. Chapin, R., Wattsburg.
S. E. Kincaid, R., Wayne.
C. A. Hitchcock, R., North-East.

FAYETTE.

Thomas B. Schnatterly, D., Uniontown.
R. M. Hill, D., Farmington.

FOREST.

J. B. Agnew, R., Tionesta.

FRANKLIN.

Hastings Gehr, R., Chambersburg.
William Burgess, R., Richmond Furnace.
H. C. Greenawalt, R., Fayetteville.

FULTON.

Robert I. Hunter, D., New Grenada.

GREENE.

Morgan R. Wise, D., Waynesburg.

---

*Expelled.

HUNTINGDON.

Alexander Port, R., Huntingdon.
Percival P. Dewees, R., Orbisonia.

INDIANA.

Jacob Creps, R., Indiana.
A. H. Fulton, R., West Lebanon.

JEFFERSON.

James U. Gillespie, D., Punxsutawny.

JUNIATA.

T. D. Garman, D., Patterson.

LANCASTER.

First district—Jacob L. Steinmetz, D., Lancaster.
Second district—Wm. McGowan, R., Christiana. Hiram Peoples, R., New Providence.
Third district—J. A. Stober, R., Schoeneck. Dr. C. J. Snavely, R., Manheim.
George H. Ettla, R., Marietta.

LAWRENCE.

E. S. N. Morgan, R., New Castle.
John Q. Stewart, R., Enon Valley.

LEBANON.

J. Henry Miller, R., Lebanon.
F. M. Bachman, R., Fredericksburg.

LEHIGH.

George T. Gross, D., Allentown.
F. B. Heller, D., Coopersburg.
Ernest Nakel, D., Catasauqua.

LYCOMING.

John Gaffey, D., Williamsport.
Nathan B. Kimble, D., Williamsport.
A. H. Hill, D., Hughesville.

LUZERNE.

First district—Charles A. Miner, R., Wilkes Barre.
Second district—John B. Smith, R., Kingston.
Third district—J. J. Shonk, R., Plymouth.
Fourth district—Charles McCarron, D., Hazleton.
Fifth district—George Judge, D., Pittston.
Sixth district—James O. Kierstead, R., Scranton. D. M. Jones, R., Hyde Park.
Seventh district—A. I. Ackerly, R., Clark's Green.
Eighth district—S. S. Jones, R., Carbondale.

McKEAN.

C. H. Foster, R., Bradford.

MERCER.

Edwin W. Jackson, R., Mercer.
T. M. Reznor, R., Greenville.
Andrew G. Spears, R., Hermitage.

MIFFLIN.

E. H. H. Stackpole, McVeytown.

MONROE.

A. J. Shoemaker, I. D., Shoemaker's.

MONTGOMERY.

Montgomery S. Longaker, D., Pottstown.
F. M. Knipe, D., Frederick.
John C. Richardson, D., Bridgeport.
James B. Law, D., Ardmore.
Edwin Hallowell, D., Willow Grove.

MONTOUR.

James McCormick, D., Danville.

NORTHAMPTON.

Robert E. James, D., Easton.
Amos J. Harris, D., Hellertown.
Hiram B. Fish, D., Bath.

NORTHUMBERLAND.

Jeremiah Snyder, D., Sunbury.
Daniel L. Sherwood, D., Northumberland.

PERRY.

David H. Sheibly, D., Landisburg.

PIKE.

Lafayette Westbrook, D., Blooming Grove.

POTTER.

D. C. Larrabee, R., Coudersport.

SCHUYLKILL.

First district—John W. Morgan, R., Shenandoah.
Second district—David J. McKibben, D., Ashland.
Third district—M. P. Fowler, R., Tamaqua.
Fourth district—John M. Kaufman, R., Auburn.
Decius H. Wilcox, R., Llewellyn.
W. Ramsay Potts, R., Pottsville.

SNYDER.

Charles Miller, R., Salem.

SOMERSET.

Emanuel J. Meyers, R., Berlin.
Allen S. Will, R., Glade.

SULLIVAN.

B. Rush Jackson, D., Dushore.

SUSQUEHANNA.

Monroe J. Larrabee, R., Susquehanna.
Eben P. Hines, R., Friendsville.

TIOGA.

Benjamin Dorrance, R., Elkland.
C. V. Elliott, R., Mansfield.

UNION.

Alfred Hayes, R., Lewisburg.

VENANGO.

J. M. Dickey, R., Franklin.
William Gates, R., Rockland.
George E. Mapes, R., Pleasantville.

WARREN.

W. M. Lindsey, R., Warren.

WASHINGTON.

James K. Billingsley, R., California.
John S. Duncan, R., Cross Creek Village.
Joseph R. McLain, R., Claysville.

WAYNE.

Almeron R. Howe, D., Honesdale.
William M. Nelson, D., Equinunk.

WESTMORELAND.

W. J. K. Kline, D., Greensburg.
John Hugus, D. Delmont.
William Donnelly, D., Millwood.

WYOMING.

John Jackson, D., Osterhout.

YORK.

Adam Stevens, D., Etters.
John B. Gemmill, D., New Park.
Philip S. Bowman, D., Hanover.
George E. Sherwood, D., York.

Republicans,	120
Democrats,	80
Independent Democrat,	1

OFFICERS OF THE HOUSE OF REPRESENTATIVES.

SPEAKER—E. Reed Myer, Myersburg, Bradford county.
CHIEF CLERK—William C. Shurlock, Beaver Falls, Beaver county.
RESIDENT CLERK—John A. Smull, Harrisburg, Dauphin county.
READING CLERK—W. H. Bradley, Danville, Montour county.
JOURNAL CLERK—J. E. Allen, Harrisburg, Dauphin county.
MESSAGE CLERK—L. G. Linn, Butler, Butler county.
TRANSCRIBING CLERKS—S. L. Wilson, Washington, Washington county.
Milo R. Adams, Garrett, Somerset county.
POSTMASTER—P. W. Raymond, Franklin, Venango county.
SERGEANT-AT-ARMS—Oscar F. Gaines, Pittston, Luzerne county.
DOOR-KEEPER—D. W. Aiken, New Castle, Lawrence county.
MESSENGER—A. B. Vance, Philadelphia.

ORGANIZATION OF COUNTIES.

Names and date, day, month, and year of the erection of the several counties of the Commonwealth of Pennsylvania, and the territory from which they were formed; the three first counties which were formed, to wit, Philadelphia, Bucks, and Chester, were established at the first settlement of the Province of Pennsylvania, and formed the only original counties of all that territory of which the now great State is formed, comprised of sixty-six counties, as follows, viz:

1. Adams, January 23, 1800, formed of a part of York.
2. Allegheny, September 24, 1788, formed of a part of Westmoreland and Washington.
3. Armstrong, March 12, 1800, formed of a part of Allegheny, Westmoreland, and Lycoming.
4. Beaver, March 12, 1800, formed of a part of Allegheny and Washington.
5. Bedford, March 9, 1771, formed of a part of Cumberland.
6. Berks, March 11, 1752, formed of a part of Philadelphia, Chester, and Lancaster.
7. Blair, February 26, 1846, formed of a part of Huntingdon and Bedford.
8. Bradford, February 21, 1810, formed of a part of Luzerne and Lycoming.*
9. Bucks, one of the original counties of the Province, 1682.†
10. Butler, March 12, 1800, formed of a part of Allegheny.
11. Cambria, March 25, 1804, formed of a part of Huntingdon, Somerset, and Bedford.
12. Cameron, March 29, 1860, formed of a part of Clinton, Elk, McKean, and Potter.
13. Carbon, March 13, 1843, formed of a part of Northampton and Monroe.
14. Centre, February 13, 1800, formed of a part of Mifflin, Northumberland, Lycoming, and Huntingdon.
15. Chester, one of the original counties, established at the first settlement of the Province, 1682.
16. Clarion, March 11, 1839, formed of a part of Venango and Armstrong.
17. Clearfield, March 26, 1804, formed of a part of Lycoming and Northumberland.

---

* Previous to March 24, 1812, this county was called Ontario, but its name was changed to Bradford on that day.

† Bucks county was one of the three original counties, established at the first settlement of the Province of Pennsylvania; the other two being Philadelphia and Chester.—*See Votes of the Assembly, Vol. 1.*

18. Clinton, June 21, 1839, formed of a part of Lycoming and Centre.
19. Columbia, March 22, 1813, formed of a part of Northumberland.
20. Crawford, March 12, 1800, formed of a part of Allegheny.
21. Cumberland, January 27, 1750, formed of a part of Lancaster.
22. Dauphin, March 4, 1785, formed of a part of Lancaster.
23. Delaware, September 26, 1789, formed of a part of Chester.
24. Elk, April 18, 1843, formed of a part of Jefferson, Clearfield, and McKean.
25. Erie, March 12, 1800, formed of a part of Allegheny.
26. Fayette, September 26, 1783, formed of a part of Westmoreland.
27. Forest, April 11, 1848, formed of a part of Jefferson and Venango.*
28. Franklin, September 9, 1784, formed of a part of Cumberland.
29. Fulton, April 19, 1850, formed of a part of Bedford.
30. Greene, February 9, 1796, formed of a part of Washington.
31. Huntingdon, September 20, 1787, formed of a part of Bedford.
32. Indiana, March 30, 1803, formed of a part of Westmoreland and Lycoming.
33. Jefferson, March 26, 1804, formed of a part of Lycoming.
34. Juniata, March 2, 1831, formed of a part of Mifflin.
35. Lancaster, May 10, 1729, formed of a part of Chester.
36. Lawrence, March 28, 1849, formed of a part of Beaver and Mercer.
37. Lebanon, February 16, 1813, formed of a part of Dauphin and Lancaster.
38. Lehigh, March 6, 1812, formed of a part of Northampton.
39. Luzerne, September 25, 1786, formed of a part of Northumberland.
40. Lycoming, April 13, 1795, formed of a part of Northumberland.
41. McKean, March 26, 1804, formed of a part of Lycoming.
42. Mercer, March 12, 1800, formed of a part of Allegheny.
43. Mifflin, September 19, 1789, formed of a part of Cumberland and Northumberland.
44. Monroe, April 1, 1836, formed of a part of Northampton and Pike.
45. Montgomery, September 10, 1784, formed of a part of Philadelphia.
46. Montour, May 3, 1850, formed of a part of Columbia.
47. Northampton, March 11, 1752, formed of a part of Bucks.
48. Northumberland, March 21, 1772, formed of parts of Lancaster, Cumberland, Berks, Bedford, and Northampton.
49. Perry, March 22, 1820, formed of a part of Cumberland.
50. Philadelphia, one of the original counties, established at the first settlement of the Province, 1682.
51. Pike, March 26, 1814, formed of a part of Wayne.
52. Potter, March 26, 1804, formed of a part of Lycoming.
53. Schuylkill, March 1, 1811, formed of a part of Berks and Northampton.
54. Snyder, March 2, 1855, formed of a part of Union.

---

* Part of Venango added by act approved October 31, 1866.

55. Somerset, April 17, 1795, formed of a part of Bedford.
56. Sullivan, March 15, 1847, formed of a part of Lycoming.
57. Susquehanna, February 21, 1810, formed of a part of Luzerne.
58. Tioga, March 26, 1804, formed of a part of Lycoming.
59. Union, March 22, 1813, formed of a part of Northumberland.
60. Venango, March 12, 1800, formed of a part of Allegheny and Lycoming.
61. Warren, March 12, 1800, formed of a part of Allegheny and Lycoming.
62. Wayne, March 21, 1798, formed of a part of Northampton.
63. Washington, March 28, 1781, formed of a part of Westmoreland.
64. Westmoreland, February 26, 1773, formed of a part of Bedford, and in 1785 part of the purchase of 1784 was added thereto.
65. Wyoming, April 4, 1842, formed of a part of Luzerne.
66. York, August 19, 1749, formed of a part of Lancaster.

COUNTIES AND COUNTY TOWNS OF PENNSYLVANIA.

Distances of County Towns from Washington and Harrisburg.

Name of County.	County Towns.	Distance from Washington.	Distance from Harrisburg.
		Miles.	Miles.
Adams,	Gettysburg,	117	69
Allegheny,	Pittsburgh,	375	249
Armstrong,	Kittanning,	373	249
Beaver,	Beaver,	403	277
Bedford,	Bedford,	203	108
Berks,	Reading,	157	54
Blair,	Hollidaysburg,	264	140
Bradford,	Towanda,	293	167
Bucks,	Doylestown,	176	142
Butler,	Butler,	378	252
Cambria,	Ebensburg,	285	159
Cameron,	Emporium,	319	193
Carbon,	Mauch Chunk,	222	119
Centre,	Bellefonte,	216	149
Chester,	West Chester,	171	80
Clarion,	Clarion,	406	280
Clearfield,	Clearfield,	285	159
Clinton,	Lock Haven,	246	123
Columbia,	Bloomsburg,	207	81
Crawford,	Meadville,	473	347
Cumberland,	Carlisle,	144	18
Dauphin,	Harrisburg,	126	
Delaware,	Media,	156	123
Elk,	Ridgway,	351	225
Erie,	Erie,	469	343
Fayette,	Uniontown,	262	322
Forest,	Tionesta,	353	227
Franklin,	Chambersburg,	147	52
Fulton,	McConnellsburg,	169	74
Greene,	Waynesburg,	323	300

COUNTIES AND COUNTY TOWNS—Continued.

NAME OF COUNTY.	COUNTY TOWNS.	Distance from Washington.	Distance from Harrisburg.
		Miles.	Miles.
Huntingdon,	Huntingdon,	224	98
Indiana,	Indiana,	341	215
Jefferson,	Brookville,	327	201
Juniata,	Mifflintown,	175	49
Lancaster,	Lancaster,	123	38
Lawrence,	New Castle,	425	299
Lebanon,	Lebanon,	152	26
Lehigh,	Allentown,	193	90
Luzerne,	Wilkes Barre,	247	121
Lycoming,	Williamsport,	221	95
McKean,	Smethport,	388	262
Mercer,	Mercer,	443	317
Mifflin,	Lewistown,	187	61
Monroe,	Stroudsburg,	254	139
Montgomery,	Norristown,	160	96
Montour,	Danville,	195	69
Northampton,	Easton,	210	107
Northumberland,	Sunbury,	181	55
Perry,	New Bloomfield,	160	54
Philadelphia,	Philadelphia,	142	108
Pike,	Milford,	326	276
Potter,	Coudersport,	345	219
Schuylkill,	Pottsville,	192	89
Snyder,	Middleburg,	185	59
Somerset,	Somerset,	238	200
Sullivan,	Laporte,	237	111
Susquehanna,	Montrose,	305	179
Tioga,	Wellsboro',	303	177
Union,	Lewisburg,	190	64
Venango,	Franklin,	435	309
Warren,	Warren,	403	277
Washington,	Washington,	298	275
Wayne,	Honesdale,	296	170
Westmoreland,	Greensburg,	344	218
Wyoming,	Tunkhannock,	289	163
York,	York,	98	28

TABLE *Exhibiting the Seats of Government, the time of the Election of State Officers, and the meeting of the Legislatures of the several States.*

STATES.	Seat of Government.	Time of holding Election.	Meeting of the Legislatures.
Alabama,	Montgomery,	Tuesday after first Monday in November,	Third Monday in November.
Arkansas,	Little Rock,	First Monday in November,	First Monday in January.
California,	Sacramento,	Tuesday after first Monday in September,	First Monday in December, *biennially.*
Connecticut,	Hartford,	First Monday in April,	First Wednesday in May.
Delaware,	Dover,	First Tuesday in August,	First Tuesday in January, *biennially.*
Florida,	Tallahassee,	Tuesday after first Monday in November,	Tuesday after first Monday in January.
Georgia,	Atlanta,	First Tuesday in August,	Second Wednesday in January, *biennially.*
Illinois,	Springfield,	Tuesday after first Monday in November,	First Monday in January, *biennially.*
Indiana,	Indianapolis,	Second Tuesday in October,	First Wednesday in January, *biennially.*
Iowa,	Des Moines,	Second Tuesday in October,	Second Monday in January, *biennially.*
Kansas,	Topeka,	First Tuesday in November,	Second Tuesday in January.
Kentucky,	Frankfort,	First Monday in August,	First Monday in December, *biennially.*
Louisiana,	New Orleans,	First Monday in November,	First Monday in January.
Maine,	Augusta,	Second Monday in September,	First Wednesday in January.
Maryland,	Annapolis,	First Tuesday in November,	First Wednesday in January, *biennially.*
Massachusetts,	Boston,	Tuesday after first Monday in November,	First Wednesday in January.
Michigan,	Lansing,	Tuesday after first Monday in November,	First Wednesday in January, *biennially.*
Minnesota,	St. Paul,	First Tuesday in November,	Tuesday after first Monday in January.
Mississippi,	Jackson,	Tuesday after first Monday in November,	Tuesday after first Monday in January.
Missouri,	Jefferson City,	First Tuesday in November,	Last Monday in December, *biennially.*
Nebraska,	Lincoln,	Second Tuesday in October,	Thursday after first Monday in January, *biennially.*
Nevada,	Carson City,	Tuesday after first Monday in November,	First Monday in January, *biennially.*
New Hampshire,	Concord,	Second Tuesday in March,	First Monday in June.
New Jersey,	Trenton,	Tuesday after first Monday in November,	Second Tuesday in January.
New York,	Albany,	Tuesday after first Monday in November,	First Tuesday in January.
North Carolina,	Raleigh,	First Thursday in August,	First Thursday in November.
Ohio,	Columbus,	Second Tuesday in October,	First Monday in January, *biennially.*
Oregon,	Salem,	First Monday in June,	Second Monday in September, *biennially.*
Pennsylvania,	Harrisburg,	Tuesday after first Monday in November,	First Tuesday in January.
Rhode Island,	Newport, Providence,	First Wednesday in April,	May and January.
South Carolina,	Columbia,	First Monday in November,	Third Wednesday in October.
Tennessee,	Nashville,	First Monday in August,	First Monday in October, *biennially.*
Texas,	Austin,	First Tuesday in December,	First Monday in November.
Vermont,	Montpelier,	First Tuesday in September,	Second Thursday in October, *biennially.*
Virginia,	Richmond,	Tuesday after first Monday in November,	First Monday in December.
West Virginia,	Wheeling,	Fourth Thursday in October,	Second Tuesday in January.
Wisconsin,	Madison,	Tuesday after first Monday in November,	First Wednesday in January.

HISTORICAL AND STATISTICAL TABLE OF THE UNITED STATES.

STATES.	When settled.	Where settled.	By whom settled.	When adopted the Constitution.	When admitted into the Union.	Square miles.	Population in 1870.
Virginia,	1607	Jamestown,	English,	June 26, 1788,		41,352	1,225,163
New York,	1614	Albany,	Dutch,	July 26, 1788,		47,156	4,382,759
Massachusetts,	1620	Plymouth,	English,	Feb. 6, 1788,		7,800	1,457,351
New Hampshire,	1624	Dover,	English,	June 21, 1788,		9,280	318,300
New Jersey,	1624	Bergen,	Dutch and Danes,	Dec. 18, 1787,		8,320	906,096
Delaware,	1627	Cape Henlopen,	Swedes and Finns,	Dec. 7, 1787,		2,120	125,015
Connecticut,	1633	Windsor,	Emigrants from Massachusetts,	Jan. 9, 1788,		4,674	537,454
Maryland,	1634	St. Mary's,	English,	April 28, 1788,		9,356	780,894
Rhode Island,	1636	Providence,	Roger Williams,	May 29, 1790,		1,306	217,353
North Carolina,	1663	Albermarle,	English,	Nov. 21, 1789,		45,000	1,071,361
South Carolina,	1670	Port Royal,	English,	May 23, 1788,		24,500	705,606
Pennsylvania,	1682	Philadelphia,	English,	Dec. 12, 1787,		46,000	3,521,791
Georgia,	1733	Savannah,	English,	Jan. 9, 1788,		58,000	1,184,109
Florida,	1565	St. Augustine,	Spanish,		March 3, 1845,	59,268	187,748
Maine,	1623	Bristol,	English,		March 16, 1820,	35,000	626,915
Wisconsin,	1669	Green Bay,	French,		May 29, 1848,	53,924	1,054,670
Michigan,	1670	Detroit,	French,		Jan. 26, 1837,	56,243	1,184,059
Arkansas,	1685	Arkansas Post,	French,		June 15, 1836,	52,198	484,471
Texas,	1690	St. Antonio de Bexar,	Spanish,		Dec. 24, 1845,	237,321	818,579
Indiana,	1690	Vincennes,	French,		Dec. 11, 1816,	33,809	1,680,637
Louisiana,	1699	Iberville,	French,		April 8, 1812,	46,431	726,915
Alabama,	1711	Mobile,	French,		Dec. 14, 1819,	50,722	996,992
Mississippi,	1716	Natchez,	French,		Dec. 10, 1817,	47,156	827,922
Illinois,	1720	Kaskaskia,	French,		Dec. 3, 1818,	55,405	2,539,891
Vermont,	1725	Fort Drummer,	Emigrants from Massachusetts,		March 4, 1791,	9,056	330,551
Tennessee,	1757	Fort Louden,	Emigrants from North Carolina,		June 1, 1796,	45,600	1,258,520
Missouri,	1764	St. Louis,	French,		August 10, 1821,	67,380	1,721,295
California,	1769	San Diego,	Spanish,		Sept. 7, 1850,	158,933	560,247
Kentucky,	1775	Boonesborough,	Daniel Boone and associates,		June 1, 1792,	37,680	1,321,011
Ohio,	1788	Marietta,	Emigrants from New England,		Nov. 29, 1802,	39,964	2,6 5,260
Oregon,	1811	Astoria,	Emigrants from Eastern States,		1859,	95,248	90,923
Iowa,	1833	Burlington,	Emigrants from Eastern States,		March 3, 1845,	55,045	1,191,792
Minnesota,	1846	Saint Paul,	Emigrants from Eastern States,		May, 1858,	83,531	439,706
Kansas,	1850	Topeka,	Emigrants from Eastern States,		1861,	81,318	364,399
West Virginia,					1862,	20,000	442,014
Nevada,			Emigrants from Eastern States,		1864,	112,090	42,491
Nebraska,			Emigrants from Eastern States,		1867,	75,995	122,993

AMERICAN WARS DURING THE PAST ONE HUNDRED YEARS.

		Length.	Cost.
1.	War of the Revolution, ...	7 years, 1775–82,	$135,193,703
2.	Indian war in Ohio Territory, ...	1790.	
3.	War with Barbary, ...	1803–04.	
4.	Tecumseh Indian war, ...	1811.	
5.	War with Great Britain, ...	3 years, 1812–15,	107,159,003
6.	Algerine war, ...	1815.	
7.	First Seminole war, ...	1817.	
8.	Black Hawk war, ...	1832.	
9.	Second Seminole war, ...	1845.	
10.	Mexican war, ...	2 years, 1846–48,	66,000,000
11.	Mormon war, ...	1856.	
12.	War of Rebellion, ...	4 years, 1861–65,	3,000,000,000

PETROLEUM.

OFFICIAL RETURNS.

Table of returns from parties engaged in the storage and transportation of petroleum oil, for the year 1877, made pursuant to the act of May 15, 1874, to the Bureau of Industrial Statistics of the State of Pennsylvania.

COMPANIES.	Quarter ending March 31, 1877.	Quarter ending June 30, 1877.	Quarter ending September 31, 1877.	Quarter ending December 31, 1877.
	Bbls. of 42 gals.	Bbls. of 42 gals.	Bbls. of 42 gals.	Bbls. of 42 gals.
*American Transfer Company,	183,312.72	38,879.29	. . . .	. . . .
*American Transfer Company, Bradford Branch,	49,991.11	165,169.62	263,739.86	. . . .
*Antwerp Pipe Company,	17,960.02	2,859.54	. . . .	. . . .
*Atlantic Pipe Line,	176,387.54	34,647 22	. . . .	. . . .
Charley Run Pipe Company,	1,243.85	4,053.18	1,609.26	1,446.83
*Cherry Tree Run Pipe Line,	27,215.37	26,322.79	. . . .	. . . .
Church Run Pipe Company,	4,609.34	4,351.81	4,029.48	3,386.79
*Columbia Conduit Company,	225,238.94	276,948.54	257.265.69	. . . .
Conewango Pipe Company,	10,062.88	13,965.41	10,410.34	7,058 32
*Empire Transportation Company,	. . . .	. . . .	899,667.02	. . . .
Franklin Pipe Line,	7,323.77	7,214.19	7,761.86	8.401.85
*Karns Pipe Line,	119,181.96	41,246.06	. . . .	. . . .
*Keystone Pipe Company,	26,200.69	21,198.17	. . . .	. . . .
*McKean County Pipe Line,	52,356.07	26,977.09	. . . .	. . . .
New York and Allegheny Oil Co.,	10,569.67	12,264.93	15,087.15	13,182.98
New York Pipe Company,	17,876.48	15,669.73	15,081.14	. . . .
Octave Oil Company,	30,973.01	33,973.68	53,339.20	48,127.99
*Oil City Pipe Company,	229,337.71	47,923.74	. . . .	. . . .
*Olean Pipe Line,	127,783.85	147,501.11	. . . .	. . . .
*Pacific Pipe Line,	5,184.32	8,046.03	10,204.72	. . . .
Pennsylvania Transportation Co.,	15,120.70	16,430.37	17,194.89	23,272.92
Prentice, F. & Co.,	3,127.45	1,835.97	2,717.84	. . . .
*Relief Pipe Line Company,	58,139.69	33,643.05	. . . .	. . . .
*Rochester and Oleopolis Oil Company,	33,328.95	36,643.41	32,391.58	. . . .
Rouseville Pipe Line,	17,553.85	21,682.34	21,167.54	28,577.97
Sage Run Pipe Line,	2,993.93	. . . .	. . . .	. . . .
Smith's Ferry Oil Transportation Co.,	6,025.50	5,697.39	8,640.27	. . . .
Taft & Payne Pipe Line,	11,202.55	12,046.66	9,319.72	11,540.70
Tidioute Oil Pipe Company,	53,305.33	65,684.25	72,572.39	86,012.74
*Titusville Pipe Company,	29,727.13	33,459.26	. . . .	. . . .
*Union Pipe Company,	389,405.71	644,528.19	. . . .	. . . .
*United Pipe Lines, (old company,).	539,509.15	100,127.31	. . . .	. . . .
United Pipe Lines, (new company,).	. . . .	1,223,942.45	1,878,718.30	3,218,086.66
*Vandergrift, Pitcairn & Co's P. Lines,	67,068.31	11,200.45	. . . .	. . . .
*Warren Pipe Line,	13,370.22	34,966.60	. . . .	. . . .
Total,	2,562,687.77	3,171,101,83	3,585,918 25	3,449,095 75

* Transferred to United Pipe Lines.

Re-Capitulation.

For quarter ending March 31,	2,562,687.77 barrels.
For quarter ending June 30,	3,171,101.83 barrels.
For quarter ending September 30,	3,585,918.25 barrels.
For quarter ending December 31,	3,449,095.75 barrels.
Total,	12,768,803.60 barrels.
Total, 1876,	9,086,266.95 barrels.
Increase, 1877,	3,682,536.65 barrels.

The following tables were prepared by John C. Welch, Esquire, of Oil City, and are the result of critical observations for the past four years:

TABLE I.—1877.

	Production—Daily average.	Shipments—Daily average.	Stocks 1st of each month.	Exports—Daily average.
January, ...	28,910	24,081	2,816,870	15,920
February, ...	29,181	15,925	2,983,231	13,435
March, ...	30,886	29,438	3,335,770	18,094
April, ...	32,400	30,032	3,394,011	23,188
May, ...	35,453	40,191	3,423,675	29,718
June, ...	37,665	46,375	3,304,302	35,330
July, ...	38,875	35,654	3,046,389	32,781
August, ...	40,894	46,916	3,162,574	35,703
September, ...	39,722	53,074	2,914,499	32,674
October, ...	39,548	41,168	2,549,460	30,189
November, ...	38,747	41,571	2,545,423	30,632
December, ...	40,309	18,625	2,474,490	19,628

The following shows the daily average for 1877:

Production, 36,093; shipments, 35,407; exports, 28,467; difference between exports and shipments, 6,940.

TABLE II.—1877.

Annual Statement for 1877:

	Barrels crude, (42 gallons.)
Stock in the oil region January 1, 1877, ...	2,816,870
Stock in the oil region January 1, 1878, ...	3,086,972
Increase in 1877, ...	270,102
Loss by fire in the region in 1877, ...	76,400
Shipped from the region in 1877, ...	12,923,716
Production from shipments, increase of stock, and fire loss, 1877, . .	13,270,218
Production from monthly compilations, 1877, ...	13,174,213
Lack of balance between different modes of ascertaining production of 1877, ...	96,005
Daily average production, 1877, from monthly compilations, ...	36,093
Total shipments from region, 1877, ...	12,923,716
Daily average shipments from region, 1877, ...	35,407
Exports from United States, 1877, (shipping list,)	10,390,520
Daily average exports, 1877, ...	28,467
Difference between shipments from region and exports from United States, ...	2,533,196
Daily average, ...	6,940

TABLE III.

Exports and value of Petroleum exported in 1877. From the Bureau of Statistics, Washington, D. C.

Oils.	Gallons.	Value.
Crude,	28,773,233	$3,267,309
Napthas,	19,565,609	938,672
Refined,	307,373,842	51,366,205
Lubricating,	1,914,129	577,610
Residuum, &c.,	4,053,440	390,077
Total,	361,680,253	$56,539,873

TABLE IV.

Total export of Petroleum from the United States in 1877.

[From the New York Commercial and Shipping List.]

From	Crude—gallons.	Refined—gallons.	Naptha—gallons.	Total, 1877.
New York,	15,642,800	218,586,565	13,736,480	247,965,845
Boston,		4,153,582	77,280	4,230,862
Philadelphia,	4,732,080	42,384,774	1,952,120	49,068,974
Baltimore,	1,309,440	48,855,804	692,920	44,858,164
Richmond,	262,520	2,860,552	3,123,072	4,667,866
Total gallons,	21,946,840	310,841,277	16,458,800	349,246,917

TABLE V.

Table of Production and Developments, by districts.

Table of Production and Developments.	Butler and Armstrong, 1876.	The entire country, 1876.	Butler and Armstrong, 1877.	Bullion, 1877.	Clarion, 1877.	Allegheny and Oil Creek, (Warren included,) 1877.	Bradford, 1877.	The entire country, 1877.
Daily average production in December,	12,088	26,699	12,693	3,095	10,412	5,385	8,454	40,309
New wells finished in December,	81	307	86	4	93	55	143	381
Estimated production of new wells December 31,	628	2,360	787	33	1,043	353	2,502	4,718
Daily average production in November,	13,544	28,061	12,468	3,934	10,419	5,500	6,426	38,747
Wells drilling and preparing to drill January 1,	249	768	141	14	171	82	338	746

TABLE VI.---PRIMARY MARKET.

Monthly Range and Yearly Average Price of Crude Oil in the following years :

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Average.
1859, . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	2,000	a2,000	2,000	a2,000	2,000	a2,000	2,000	a2,000	$20 00
1860, . .	1,850	a2,000	1,800	a1,800	1,250	a1,275	1,000	a1,200	1,000	a1,000	900	a1,000	825	a900	750	a750	625	700	500	600	300	450	200	350	9 60
1861, . .	100	100	100	100	100	100	50	75	50	50	50	50	50	50	25	25	20	20	10	10	10	10	10	10	49
1862, . .	10	10	10	20	20	25	50	50	70	100	100	100	100	150	100	150	100	150	150	200	200	200	200	250	1 05
1863, . .	200	250	250	250	250	275	275	300	275	300	300	300	325	325	325	350	350	350	375	375	380	390	330	400	3 15
1864, . .	400	400	375	500	500	600	600	712	650	725	750	1,150	1,125	1,375	900	1,100	650	1,125	600	950	900	1,100	1,050	1,150	7 62
1865, . .	650	1,000	700	800	500	700	500	700	650	825	500	625	500	525	400	525	425	925	675	950	650	800	550	800	6 18
1866, . .	400	500	400	480	300	400	350	440	400	500	350	425	250	350	250	500	400	500	253	425	260	360	165	210	3 78
1867, . .	165	210	170	200	150	200	190	200	220	250	150	230	175	350	280	350	280	400	310	400	210	300	175	300	54
1868, . .	180	210	200	200	225	285	260	300	360	400	400	500	475	550	400	505	375	425	400	425	300	450	110	460	3 05
1869, . .	450	700	690	700	550	610	540	600	500	570	435	555	500	575	240	575	540	560	545	565	550	610	425	600	5 48
1870, . .	415	490	435	470	420	470	410	435	110	470	400	435	335	420	275	355	310	340	310	345	310	335	330	350	3 74
1871, . .	325	340	396	480	400	400	390	412	410	510	456	515	458	500	457	475	448	482	430	485	391	460	400	400	4 50
1872, . .	400	405	360	400	360	385	345	360	360	400	380	410	350	410	317	400	300	350	315	315	367	460	300	365	3 84
1873, . .	200	243	220	225	217	220	220	275	250	275	205	250	110	180	117½	140	117½	150	115	145	92½	137½	92½	117½	1 84
1874, . .	117½	175	107½	235	175	205	195	210	132½	205	132½	205½	112½	137½	105	117½	102½	117½	82½	107½	73¾	82½	80	102½	1 29
1875, . .	101½	145	140	195	176½	190	143¾	178¾	130	155	121¼	146½	102½	128½	108¾	116¼	116⅜	180	143⅓	172½	147½	165	160	175	1 48
1876, . .	175	220	200	237½	207½	230	182½	225	182½	217½	2 3½	226	225	260	245	401¼	355	400	300	390	300	385	355	402½	2 73
1877, . .	325	387½	235	325	235	290	240	293	208¾	245	155⅝	230	173⅜	270	222½	270	228¾	249¾	196¼	237½	200	244⅜	178½	212½	2 83

TABLE VII.—PRODUCTION.

Average Daily Production each Month in the following years:

A. D.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1870, ...	11,287	11,714	11,299	12,294	13,211	13,731	13,735	16,776	18,462	18,171	16,953	15,178
1871, ...	13,497	13,306	12,914	12,866	13,187	13,678	14,725	14,922	15,398	15,653	15,487	15,418
1872, ...	18,825	15,965	14,890	15,403	17,326	16,371	16,702	17,739	16,681	4,272	21,287	20,825
1873, ...	20,407	21,725	21,461	21,384	25,044	26,449	27,983	30,198	31,809	30,403	33,049	34,980
1874, ...	37,653	29,839	28,498	25,958	28,895	30,725	33,337	30,049	28,021	29,669	28,702	27,682
1875, ...	25,155	25,185	23,916	23,376	24,503	25,125	26,061	25,282	24,112	24,901	24,069	23,003
1876, ...	23,418	23,478	23,105	23,625	24,293	24,992	26,404	27,995	28,509	27,582	28,061	26,699
1877, ...	28,910	29,181	30,886	32,400	35,453	37,665	38,875	40,894	39,722	39,548	38,747	40,309

TABLE VIII.—STOCK.

Total Stock of Crude in the Oil Producing Fields at the close of each month in the following years:

A. D.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1870, ...	340,154	342,390	351,474	328,609	329,908	351,168	321,840	356,908	419,477	473,896	576,014	554,626
1871, ...	537,751	587,021	642,000	771,000	605,000	554,000	511,220	530,146	541,300	495,102	502,960	532,000
1872, ...	532,971	579,793	662,497	877,832	950,803	1,010,302	990,229	997,166	951,410	914,423	886,909	1,084,423
1873, ...	1,183,728	1,265,373	1,244,657	1,178,643	1,192,541	1,324,493	1,433,020	1,513,890	1,521,185	1,452,777	1,493,875	1,625,157
1874, ...	1,948,919	2,283,032	2,648,210	2,623,534	2,594,286	2,701,625	2,279,479	2,932,444	2,758,504	3,134,902	3,449,845	3,705,639
1875, ...	4,104,703	4,496,751	4,601,187	4,637.827	4,549,700	4,502,896	4,446,426	4,205,856	3,813,494	3,759,403	3,794.947	3,672,077
1876, ...	3,603,203	3,681,793	3,753,513	3,900,703	3,989,904	3,791,642	3,500,612	3,182,160	3,011,004	3,180,983	3,142,397	2,816,870
1877, ...	2,983,231	3,335,770	3,394,011	3,423,675	3,304,302	3,046,389	3,162,574	2,914,499	2,549,460	2,545,423	2,474,490	3,086,972

TOBACCO.

Statement showing the exports of leaf tobacco from the United States during the undermentioned years:

YEARS.	Quantity—hogsheads.	YEARS.		Quantity—hogsheads.
1790,	118,460	1834,		87,979
1791,	101,272	1835,		94,353
1792,	112,428	1836,		109,042
1793,	59,947	1837,		100,232
1794,	72,958	1838,		100,593
1795,	61,050	1839,		78,995
1796,	69,018	1840,		119,484
1797,	58,167	1841,		147,828
1798,	68,567	1842,		158,710
1799,	96,070	1843,		94,454
1800,	78,680	1844,		163,042
1801,	103,758	1845,		147,168
1802,	77,721	1846,		147,998
1803,	86,291	1847,		378,440
1804,	83,343	1848,		130,665
1805,	71,252	1849,		101,521
1806,	83,186	1850,		145,729
1807,	62,232	1851,		95,945
1808,	9,576	1852,		137,097
1809,	53,921	1853,		159,853
1810,	84,134	1854,		126,107
1811,	35,828	1855,		150,213
1812,	26,094	1856,		116,962
1813,	5,314	1857,		156,848
1814,	3,125	1858,		127,670
1815,	85,337	1859,		198,846
1816,	69,241	1860,		167,274
1817,	62,365	1861,		160,816
1818,	84,337	1862,		107,233
1819,	69,427	1863,		111,896
1820,	83,940	1864,		109,905
1821,	66,858	1865,		149,032
1822,	83,169	1866,	Pounds.	190,826,248
1823,	99,009	1867,		184,803,065
1824,	77,883	1868,		206,020,504
1825,	75,984	1869,		181,527,630
1826,	64,098	1870,		185,748,881
1827,	100,025	1871,		215,667,604
1828,	96,278	1872,		234,936,892
1829,	77,131	1873,		213,995,176
1830,	83,810	1874,		318,097,804
1831,	86,718	1875,		223,901,913
1832,	106,806	1876,		218,310,265
1833,	83,153	1877,		282,386,426

EDWARD YOUNG,
Chief of Bureau.

BUREAU OF STATISTICS,
December 14, 1877.

1615 SUMMER STREET, PHILADELPHIA,
December 1, 1877.

W. HAYES GRIER, Esquire, *Bureau of Statistics, Department Internal Affairs, Harrisburg, Pennsylvania:*

DEAR SIR: In compliance with request contained in your favor of 12th instant, the following statement shows how many cases of tobacco have been raised in Lancaster county, since 1860, including a careful estimate of crop for this year. The area planted at present will be about the same as last year, (1876,) but a feeling exists among growers of giving the crop more attention, and growing a better article; but the result is expected to show at least an increase of some 2,000 cases over and above the crop of 1876. In the year 1860, 15,000 cases were packed, from tobacco grown exclusively within the county, increasing in following year 5,000, making 20,000 for the year; in 1862, the number packed amounted to 23,000, still an increase; but the crop of 1863, amounting to 30,000 cases, checked somewhat the growth, and the crop fell off during the next seven years. The number of cases packed each year being: 1864, 20,000; 1865, 12,000; 1866, 7,000; 1867, 2,500; 1868, 5,500; 1869, increased to 9,000; 1870, increased still more, to 16,580; in 1871, crop of 1870 was nearly doubled, being 31,230 cases; 1872, 34,010; in 1873, fell off to 25,000; increasing some 5,000 in 1874; in 1875, the crop of that year went ahead some 10,000 cases over preceding year; in 1876, 35,000 cases were packed; and a very careful estimate, from reports of all the tobacco growing districts, will bring the crop of this year (1877) up to 37,000 cases, which will fall short but 3,000 cases of the highest amount reached since 1860, the year 1875 having grown 40,000 cases. You have, therefore, for the eighteen years, 392,820 cases of tobacco, weighing, say three hundred and sixty pounds tobacco each, we have 141,415,200 pounds. To those who are versed in the prices realized per pound during these years, from 1860 to present time, can see how much, in money value, has been the tobacco growing business of the county.

Lancaster county, Pennsylvania, is acknowledged, generally, to be the "banner" tobacco district of the United States, no other equal area of land produces as many pounds per acre, of a standard, excellent quality, commanding the highest possible prices for native grades of any grown in this country, and bringing a revenue to the producers larger than that of any tobacco district in America. The value of last year's crop, being estimated by what has been sold and that which remains on hand, deducting considerably for reduced prices, aggregates ($2,500,000) two and a half millions of dollars.

Another marked characteristic of the Lancaster county tobacco, as a crop, is the large amount which is yielded per acre. Lancasterians are synonymous with good farmers, and in this crop they seem to have "set" themselves to outstrip the world. Each one seems to vie with his neighbor in a friendly competition as to which can produce the greatest yield per acre. Of the crop of 1872, (the writer, speaking from personal knowledge of the amount produced, having visited every tobacco growing township,) forty-three townships had 6,802 acres planted out, the area being somewhat in a circle, the greater number of acres being cultivated in the center of the circle.

Of the forty-three townships, fifteen grew from one to fifty acres each, nine grew from fifty to one hundred acres each, seventeen grew from one hundred to five hundred acres each, one grew one thousand acres, and one township, *Manor*, had over one thousand two hundred acres planted out, thus showing that "Manor" township is to the tobacco growing district of Lancaster county what Lancaster county is to the largest tobacco district of America. The average number of pounds yielded per acre being one thousand eight hundred.

In agricultural interests generally, the farmers of Lancaster county come as near perfection, in their skillful manipulation of the soil, as any community of the kind in this country, expending their labor in the most economical and intelligent manner possible, so as to insure lucrative returns.

Hoping the above will be satisfactory, I remain, sir,

Your obedient servant,

WILLIARD T. BLOCK.

STRIKES.

"Knowledge is Power; Time is Money."

BY RICHARD VAUX.

Very much has been said—more lately than heretofore—on the subject of "strikes," a term which formulates many of the causes, incidents, and consequences of the conflict between the employers and the employed, in both manual and skilled labor. The basis, the patent cause of these strikes, is the question of "wages"—a term which expresses the equivalent in money for the time employed in production. To adjust the money value of this time, and pay the agreed sum, cannot be accomplished without involving some elements not apparent in the bald question itself. He who pays is required to consider the cost of the raw material; the time in producing out of it the thing to be consumed or used; the credit to the buyer; the interest on the money obtained to carry on the business; the loss in bad debts, and the wages of those who produce; his own living, and the profit to be made. He who receives the wages calculates in the sum demanded, his family support, house rent, food, light, fuel, and the like.

The medium by which the wages are paid, and on which it is computed, is called money, and has either a fixed or a relative value, if it is either money or coin, in the strict interpretation of that word, or currency, which is only the conventional substitute for it.

Underlying this condition of things, and in which it rests for its vital force, is the principle of demand and supply, which must of necessity control all production, for if there is no want for a thing, there is no use for producing it, or if it is produced under the circumstances, the price it commands has no fixed or ascertainable standard, and the loss on its sale may bankrupt the producer and all concerned with him. This applies as well to what is called "home market," or exportation to a "foreign market."

These are elementary principles which cannot be denied as truisms in political economy, or the science which treats of production and value. Since Adam Smith this science has been one of the most important in social welfare. Since Adam Smith but very little has been added to the primary principles on which this science depends for its existence. It is true that writers and thinkers have elaborated out of it special questions, and money has been brought into view as one of those questions, as bearing directly on value, and medium of liquidating the value of commodities, both as to production and sale.

"Wages," too, has been eliminated out of this science, as also of prime importance in estimating both the cost of production and the profits, and not a little has been said in regard to wages as an element in determining values.

We think, however, that all this has resulted in beclouding the elementary principles, till a cobweb of theories has nearly veiled them from the practical consideration of men.

The subject is so plain, so easily understood, if stripped of its theoretic clothing, if left to the common sense of common sense people, that it is worth trying to present this subject in the plain guise of its simple character.

"Strikes," as we now understand them, are the means whereby the wage-grower seeks to stimulate the yield, or to get more money for his time than it is worth to those who have to buy it.

"Time," being the real factor in question, is lost sight of in the term "work," which, it is said, demands the price paid for it, as if work or labor could exist independent of time, the time spent in the work or labor, so that time is the basis on which wages are computed, and for which wages, or the cost of the value of this time to the worker, laborer, or producer, is calculated and paid.

There is an early historic example of this view, a test, too, of its correctness, which is worth serious consideration. The parable of the laborers in the vineyard, recorded in twentieth chapter of St. Matthew's Gospel, we find the first record of the time principle, as we think, on which "wages" or "hire" is computed. Reading it, as explanatory of the theory we have to offer, it seems most pertinent, because the "hour," or fraction of a day, were paid for on the hypothesis that it was time that earned the penny and not the toil.

* * "An householder which went out early in the morning to hire laborers into his vineyard, and when he had agreed with the laborers for a penny a day, he sent them into his vineyard, and he went out about the third hour, and saw others standing idle in the market place, and he said unto them: Go ye also into the vineyard, and whatsoever is right, I will give you, and they went their way. Again, he went out about the sixth, and ninth hour, and did likewise, and about the eleventh hour he went out and found others standing idle, and said unto them, why stand ye here all the day idle? They said unto him, because no man hath hired us; he said unto them, go ye also into the vineyard, and whatsoever is right, that ye shall receive. So when even was come, the lord of the vineyard said unto his steward: Call the laborers and give them their hire, beginning from the last unto the first. And when they came that were hired about the eleventh hour, they received every man a penny; but when the first came, they supposed that they should have received more, and they likewise re-

ceived every man a penny, and when they received it, they murmured against the good man of the house, saying, these last have wrought but one hour, and thou has made them equal unto us, which have borne the burden and heat of the day, but he answered one of them, and said: Friend, I do thee no wrong, didst not thou agree with me for a penny? Take that thine is, and go thy way, I will give unto the last even as unto thee. Is it not lawful for me to 'do what I will with mine own?'"

In this record may be seen the first "murmur" as to wages, which, in our day, would have resulted in a "strike." It will also be observed, the far more important point is, that it was "time," and not "labor or work," that was the element in the agreement between the householder and the laborers, for the time was paid for, and not the work done, hence the employer fixed the price for the time, and paid all alike. If it was for the "work" done that the penny was given to each, there would have been an injustice, for those who worked all day and dressed a quarter, or half an acre of the vineyard, where not properly paid with a penny in comparison with those who only dressed a perch. But if time was the basis of reward, then the time of all was regarded as alike valuable to each one, so far as it benefited them in contributing to their living. It will also be observed that there were more "idle" laborers that no man had hired, than those who were required for the time to perform the labor necessary at the place.

If the work each performed, or was to perform, without regard to time, had been the basis of the hiring, then it would have been impossible that he who labored all day should not have done more work than he who went into employment at the eleventh hour of the day.

While it is admitted that this parable, like all symbolism in the Divine teaching, has a spiritual significance, yet the symbol was suggested by the actual condition of the rules which then governed society.

Time, then, is the basis on which wages is calculated, and for which it is the equivalent, and the medium of payment is money, or wages.

If this is conceded, then the number of hours that can be hired is but another and better mode of expressing the men needed, for each man is the representative of so much time.

When there is more time unemployed than employed, in any business, the excess, in proportion to the whole time needed, is the standard of wages.

This depends on the demand for what time is required to produce. When there is little or no demand for time, that unemployed is far greater than that employed, and the value of the time is reduced in money. We, therefore, cannot understand how either a refusal to be employed, or "striking," can equivalate unemployed and employed time. Those who are not employed, owing to the want of demand, and those who strike and refuse to be employed, aggregate a total absence of all employment of time. This makes it a supply without demand, which constitutes it a marketless commodity, without present value, which the while is contracting a debt for its support, a workman idle, and gaining nothing for self support. To pay back this indebtedness, is a lien on his time when employed, and while so paying it, he depreciates the value of his time only to himself.

To test this view further, let an example be taken which will elucidate it. A farmer wants his field fenced in, and he employs a workman to do it. The time consumed can be almost accurately predetermined, for the work is simple, and he pays for the time occupied, or by the job, when the workman determines the time it will take, and the price is agreed upon. Then take a skilled artisan who understands, and is able to perform the most delicate part of the manufacture of a watch, the time, in this case, is not to be predetermined. The time consumed on the minute part of the mechanism, is longer or shorter as circumstances require. The value of the time in the one case is less than in the other, for two reasons: first, because there is more unemployed time in fence making than in watch making, and hence the time of one workman is necessarily greater in money value than the other, or to use the popular phrase, one gets the more wages. Again: the value of the thing produced is greater in price than the other, which regulates the price paid for the time in production.

In this view no notice has been taken of the character of the medium in which the value of time is paid. If it is in gold, the fixed standard of money, then in both cases there is no apparent difference, except as to the needs of the two men employed, or to the cost of living. If the representative of money, or currency, is the medium, then the difference between the value of currency, when exchanged into money, must be considered in fixing the price of the time hired.

If this subject is to be considered in its relations to men only, as a personal one, affecting human beings, it is more easily understood. When a work is to be done, and there are ten men required, and a hundred willing to be engaged, those not employed can go elsewhere, as they are free to change their localities. But the time required to do the work is, nevertheless, the same, and the value of the time is only reduced in money, its equivalent or pay, while the price for the time is liable to be effected by the surplus over that needed. In other words, the wages depend on the amount of time that is offered to do the particular work, but the quantity of time to do it remains the same.

When the price paid for the time is less than the needs of him who is employed, and he requires more compensation for it in money, to stop work, or "strike," does not increase the remuneration,—it ends it altogether. The employer may suffer in loss of production, but he is repaid by the enhanced value of the production. The lost time of the operative is not made up, and the time used, when reëngaged, is paid for at its then value, and the loss deducted from it is not to be estimated in the price paid. When, therefore, time seeks to gain from its employer an increase in its estimated value in wages by "strikes," the man who thus reasons, reasons falsely, for the result shows that his lost time is never made good to him by the price paid for it after the contest is ended. It cannot be in the nature of things, for the hire of time is the price paid for its results, and as time unemployed produces nothing, it has no value to a hirer of it. It is argued by the employed that as the time of production is essential in the production, it should bear a partnership relation with the profit in the price of the thing produced, over and above its cost. This cannot be in the nature of things, for time has neither fixed nor permanent value in production. If, for a given series of years, it required fifty men so long a time to produce a certain thing, and then artificial means were applied, machinery, to do in a day what these fifty men required ten days to do, a total change is made in the relation of time to production, and could these fifty men be partners in the profits thus made? Here, again, is an example of the exact and close relation time has to production, for the machine does in so much less time what those previously engaged could produce. The cost of the machine and its working is the equivalent of the value of the time of the men.

We now come to consider one of the most potent influences which directly depreciates the value of time in production. Human effort, or manual labor, is called "work," and it is said that wages is the price paid for this "labor." But men are not hired to do so much labor, at a price for that labor; they are hired "by the day," or "by the hour," or for specific periods. The man who is employed to dig a canal, or make the road bed of a railroad, is not paid for the amount of physical effort he performs in eight or ten hours, but he is paid for so much time. The engineer of a railroad engine is not paid for the physical toil he undergoes, the labor in running the engine, but the time he is required to do a certain act, or traveling a certain number of miles. The weaver is not paid for the number of yards he weaves, but if a task is set of so many yards, his time is paid for while engaged in producing the yards required. *Time* is the essence of the agreement for the wages paid, for after all it is simply the money paid for the time given to the employer by the operative.

Now the value of time is effected by the excess of that unemployed over the employed. To depreciate this value is a consequence incident to the methods which modern science has created for the purpose of "producing," at the least expenditure of time. Machinery, which is the result of invention, and the steam motor, which is the substitute for man labor, have taken the place of individual labor when possible, and reduced the amount of time in the process of production. Let an extreme case be cited to show the effect. A ton of goods is to be transported one hundred miles. Man labor, as the primitive method, would require, say fifty men, four days, making ten hours a day, walking with his share of the load, or 2,000 hours to transport it, and the cost of the time, forty hours, at $1 50 per each ten hours. The cost of the transportation would be, say, at least $300.

A steam engine would carry this ton of goods on a railroad in four hours, at a cost of say five dollars. The depreciation in the time between the man labor and steam machinery labor is as 4 to 2,000—that is, the price of the time of man labor is reduced 500 per cent.

The weaving of cotton yarn, if done by hand looms, would require a period of time, compared with machinery, that would show a far more startling depreciation of the value of time in production.

These extreme cases are only taken to demonstrate the proposition, that it is time and not physical labor which is the element in production, and for which what is called wages is paid as its equivalent, or recompense or reward.

When we consider the direct effect of mechanism or machinery operated by a particular motor, in depreciating the value of time as an element in production, the effect produced on the raw material, chiefly engrosses our attention. The cotton manufacture is a striking example. The quantity of the raw material made up into fabrics principally demands the attention of those directly interested, for the price paid for the material, and the price received for the goods are the points of interest, because the profit is thus ascertained after the cost of production is deducted. But this cost of production does not represent physical labor, for machinery is the chief agent. The interest on the first cost of the mechanism, the wear and tear, the interest on capital, buildings, and the like, are first considered, and the wages are incidental, because human labor bears so small a proportion to the labor of the machinery, hence the time of those employed is of proportionally less consequence in the cost paid by the manufacturer.

It is, therefore, the effect of mechanism in production that undervalues time, since the combining of these mechanical agencies yields such wonderful disproportioned results to the labor of human beings. The ratio of this disproportion is not easily computed, but enough is ascertainable to determine a relative result in production between machinery and manual labor in mills, factories, and any work-establishments, which, night and day "run" as it is called, in their specialties. The wages of operatives who work in these factories, compared with the interest on cost, and wear and tear on the machinery, does not represent this disproportion. But it does represent, so far as to the quantity of goods made, the value of the time of these operatives, because the competitors as to time and the increased advantages obtained by machine labor in so far depreciates the price paid for this time, which is called wages. If a machine can do in ten hours what would require fifty men to do in the same period, the time is then as ten to five hundred, a undervaluing which is easily understood.

It is true the forty-eight men, (two being engaged in running the machine,) or the forty men of these fifty, may find employment in other branches of industry, and the making of the machine and the incidents thereto may give employment, but this is not the question under consideration. We are only examining the effect of machine labor in its operation on time, as the real basis of wages.

Another example may be presented, which is as demonstrative as any other. A log of timber is to be sawed. To cut it into boards by manual labor would require ten hours time of several men, yet a gang of saws run by steam or water-power would do the work in a few minutes. The cost of the saws, and the machinery in the saw-mill, the buildings, and the land, at legal interest, if not omitted in the calculation of cost, would yet reduce the expense of this cutting, say five hundred per cent. below the cost of the manual labor. The physical force of the men is not put in competition with the physical force of the steam and machinery, but the time occupied in the cutting of the log is the only measure of wages, the gang of saws doing in so much less time the work of the men, and so reducing the value of their time as computed in "wages." But another view of this subject may be pertinent in elucidating the proposition, that it is time, and not labor, that is the basis of wages.

In the aboriginal condition man has nothing to sell, that is to say, in the "state of nature." The man lives by hunting; builds his own hut; migrates to favorable localities; has his squaw and children as attendants, not dependents. He belongs to a tribe which is self supporting. He has, therefore, nothing to sell, no productions of either skill or time which he finds a market for, or a purchaser. Barter is the only method of exchanging what one may possess, and another desire, but the thing bartered for is accessible to all, game, weapons for the chase, or for war. Time, to these nomads, has no value. Each expends as much time as the other in their common pursuits. In this condition, "wages" are unknown, labor is unknown, time has no value, and therein is the reason.

But as this condition changes, and civilization operates, and the tribe becomes a society, or a community, the needs of whatever kind are created which each cannot supply for himself, then a demand is produced for some to do for others, what, for any reason, they cannot accomplish for themselves. To seek for this supply is the first evidence that there are more or less of the tribe, or of the society, who can be obtained to perform the service required. Those who have no pressing occupation, are willing to perform this service sought for. Their time is for sale, and it is the time which they have to sell, and only that. To do the services takes so much time, and the reward is not in what we call "money," for there may be no such medium to pay by, or pay in, but some article that engaged the maker a given period to produce, a bow and arrows, a canoe, some game or skins, are offered in payment for the time occupied in rendering this service.

From this primal condition, up to the highest development of populations in the highest civilized State, it may be seen that time is the element which constitutes the measure of reward for its use, or wages, as it is called most universally, the measure of reward for the time hired. He who lives, supports himself by his ability, knowledge, or capacity, to render service in any business, vocation or industry, has his business capital in his capacity and his time; these he sells, and "wages" is the term generally used to designate the pay or price for the capital, the interest it gets for its hire. When physical power, muscle, sinews, and bone, are the basis of the sale to the employer, it marks the line of involuntary labor, separating it from voluntary labor. Voluntary labor is based on the time sold by the owner to the employer, and wages is the mark put on this sale as the price the free owner of this capital, time, and capacity, gets by the sale.

It is to be observed that "strikes" occur when men and machinery work together, as in factories, mills, and the like, where the operatives and the mechanism coöperate in production. For example, the "operatives" in factories, and the "hands" in mines or on railroads, are almost the exclusive forces which inaugurate these "strikes." Farm hands, agriculturists, those who till the soil and raise its production, rarely, if ever, "strike." This may be said, generally, of skilled artificers.

Now, there must be some powerfully controlling motive for this; and it is generally explained by the reason we have given how and why wages are reduced. Therefore, for self-preservation, the operative and employed must combine to force a just reward for their time, or an increase in their wages.

But is it now apparent that in these cases the cause can be best discovered in the fact that the machinery, the mechanism of whatever sort, depreciates the value of the time of the man in proportion as it produces in so much less time than he by his labor could produce. When the man and the machine work coöperatively, the production of the latter is measured by the time consumed, and thus irresistibly forces the measure of his time to that standard of value. The price paid for time is the value of the time, and as the machine works so much more rapidly in producing than the man, the price is reduced on that basis, and "wages" are, therefore, reduced in proportion to the price paid for the thing produced on the open market. Then it is that the machine time becomes the standard of what is called wages.

It is the equalization of time between mechanism and manual labor which fixes the value. When the price paid on the open market for the thing produced is reduced, because the demand exceeds the supply, the time of its production becomes less valuable to man. Since the cost of the time of the machine work is less valuable, and can be easily regulated, so "wages" fall in this proportion. Hence, "*strikes*" occur. Strikes are the first remedy considered.

So, too, with the hands in railroad employ: time again is measured by the steam machinery in use. A man is required to run so many cars, because the time taken to bring them over the road is the same if the number of cars be greater or less, provided the burden is possible to the power of the engine, and so with all the competition of the time of men is competition, or in coöperation rather, with the time of machinery.

If these strikes are found to exist more generally in the special or specific cause mentioned, then the reason given herein is worth considering, since they occur under such special condition.

When we come to consider agricultural vocations, we find that the reason above given cannot apply, for the causes do not exist.

The tillage of the soil is common to all land, in all countries. The seasons regulate the kind of service to be performed, and time is duly measured by the demand, which varies but little. So many hands only are required on a given farm or plantation. The number is easily computed, and "hands" rarely exceed this ascertained demand. The seasons divide the particular labor, and machinery about equals the increased number of farm hands as land is yearly brought under cultivation.

The time of the "farm-hand" is, in like manner, as easily measured as to its value and "wages," or the recompense, for time is nearly stationary, or fluctuates less than in any other avocation. There may be special exceptions, but, as a general rule, we think it is so. At all events, "strikes" among farm-hands are rarely known. It may be said that in agriculture the work of farmers is mostly performed by the family, and this may be the reason why strikes are rare. But that does not destroy the proposition we are trying to demonstrate, that the value of the time of such members of the family is measured by other reward than money, or wages. The support of the family by the parents enters into the computation of the value of the time of its members, as part of the reward for their labor, and money is not needed as the exclusive remuneration for their time. In their support is to be considered the use of the products of the farm, and the excess is profit, out of which interest on cost, purchase of other articles for "support," purchasing farm implements, and maintaining the "stock" are to be taken, or the maintaining of the capital of the farm. Therefore, time is the measure of the service of those engaged in agriculture.

There is another thought that requires our consideration. The coöperation of manual labor with that of mechanical labor is most generally required by corporations. Corporations are created for obtaining the use of concentrated capital of individuals, who are the stockholders in legislative creations or "artificial persons."

These corporations are engaged in productive enterprises, making or manufacturing articles for general use, or railroads, for transporting produced articles, and passengers. Their objective aim is to make profits, which are, after paying expenses, called dividends, or the reward for the loan by these individuals of their money to these corporations.

To work or manage these corporations, man, human labor, individual toil, is not considered. Time is the first consideration, and what can be done in a given time is the necessity for profit. If a corporation is established to make boots and shoes, the first purpose of its manager is to buy the most improved patent in mechanical labor, or the best machinery. The test of best is the rapidity it can do certain work in a given time, or how many pairs of boots and shoes it can turn out in so many hours. The more produced, the more cash is received on sales. When human labor is brought into coöperation with this machinery, the skill or knowledge of the man or men, or employés, is graduated by the ability to work with the machine, or in conjunction with it, and, therefore, the real measure of the labor or service rendered to the corporation, in value, is the time of the employed, coöperating with the time of the machinery, assimilated with it in production. The value of this time is depreciated, and its reward is mostly uncertain, and ever to be reduced, as profits require. This forces the operative to be on his defense against the undervaluation of his time, or in general parlance against reduction in wages.

In mining coal, this is also apparent. When a mine is "working," the operative is engaged under a contract, the substance of which is that he is to provide himself with oil, powder, tools, and a helper; a "breast" is then assigned him, and he is required to mine, say five car loads, to be put at the foot of the shaft. This coal is then sent to the "breaker," and the operative is paid so much for this quantity of coal. The labor of mining is greater or less according to circumstances. The time, however, is measured by the quantity mined. One man may, by skill, or by the peculiar formation of the "breast," blast and fill these five cars in five hours, another will take ten hours for his task, yet each gets the same price for the five cars. This character of engagement or contract is in the nature of "piece work," a given production, at a stipulated price in which labor does not exclusively enter into the reward. The time only is considered, and the reward is the cost to the employed of his time. In this kind of engagement, called "piece work," the employed values his own time. When the employed is hired, the employer fixes the value, or fixes the wages. It may be said, and is said that it is the product of the labor which yields the reward—that is, the wages are paid for the result of production, the labor that produces. The refutation of this assumption is found in the fact, that when many hours of labor devoted to producing fail, from circumstances, to give any ascertainable result, then the operative is not to have a reward for the hours occupied. The time so occupied is paid for, but it is less valuable in comparison with that of the operative who produced the task in a so much shorter period. The period of production is the basis of the payment for the product.

"Piece work," as it is called, is a form of contract for the time of the operator, which is free from many of the difficulties which attach to "day's work." In the former, the producer is left to his own estimate of his time's value. He may take one or more days to the task, for his wages are apportioned to his time by his own option. If he sells his time by the "day's work," the employers adjust for him the pay for the production of the day, or the hours called "a day."

Just in proportion as the operative is skilled—that is, instructed or "educated" in his vocation, so is his time more valuable, and the rate of his wages is more stationary, or fixed. Educated labor, skilled labor, instructed mechanics are more difficult to find, than those who assume to belong to trade crafts. The more knowledge one possesses of the business he engages in, the more surely he is to be employed. Given two men of the same physical strength and capacity, the one skilled, the other less so, in his trade, would stand on unequal ground when seeking employment, because the employer would, of course, accept the services of the most competent, and thus educated labor appreciates the value of time in production. The skill or knowledge possessed adds to the ability to produce in every branch of industry, and the time consumed is shortened, and the price paid for the less time augments its value.

There is a great need now for a well-considered method for educating artisans and mechanics, and skilled operatives. It is one of the absolute necessities of the day. The competition between human labor and the labor of mechanism requires that the man should be instructed fully in his branch of industry. The machine work is a time saving agent, and does all its work in the time the highest capacity which human ingenuity can put into its operations. So, too, must the man be educated up to the highest capacity which he can attain in his branch of business, or machinery will so entirely depreciate the worth to the man of his time as to force him to accept as wages the lowest possible sum for his service.

" Strikes " are less common with educated labor than with labor in connection with machinery. It is the result of inability to compete with ability, which makes " strikes " the physical remedy against the depreciation of the value of the time of the workmen. Strikes are only force against power—the force of resistance against the power which is undervaluing the time of service, and the payment for the depreciated value of this time.

It is worthy of note, as hereinbefore stated, that agricultural labor does not " strike," because the knowledge, the education which the farm hand has acquired during his apprenticeship to the " work " of a farm, is most generally on the highest line of acquirement, in this branch of industry. Seed time and harvest, when, how, and under what special conditions to plough, sow, reap, till, and fructify the soil, are learned by the teaching and the experience of farm life. The farm hand has, therefore, all the knowledge necessary, and his time is rewarded, plus his knowledge, by the wages received, or the support he gains.

The education of those who engage in all the branches of industry, in the knowledges of each branch is now of the utmost importance, not only to the artisans, but to society.

We do not undertake here to discuss the moral character of " strikes " as a means to an end. The economic feature of these strikes is only to be stated to be understood. Strikes cannot appreciate the value of time, and hence increase wages ; that is not probable in the very nature of things. The time lost is never paid for by wages obtained after reëngagement of the striker, for deducting the lost value in the loss of wages from the wages paid on resuming, or obtaining employment, the deficiency ever remains as a loss.

We are not sure, however, that strikes are unnecessary, or that they do not produce some benefits. The labor that "strikes," seizes the readiest weapon for defense against what is called oppression, by refusing to be oppressed, and idleness withdraws the victim from the tyranny of inadequately paid time. As a means, it is solely within the province of those who adopt it. It must not ever be permitted to envolve involuntary strength, by forcing those who are unwilling to get nothing for their time, because they do not get enough, to join in the use of this weapon of idleness. Corporations, by their greed, their disregard for all interests but their own profit making, their irresponsible positions towards society, their monopolies, their arrogance, their abuse of powers, the oppression they put on the people, their theory that they are above all law, and can control legislation and legal action, have made resistance against their tyranny, not only a necessity, but in some cases a high moral obligation on society. "Strikes" are the elemental rudiment of this resistance, and we are not prepared to condemn them, without considering what advantages may result to society. Strikes are the results of corporation policies, and, for good or for evil, corporations must bear the consequences, and pay the losses, and enjoy the benefits. If capitalists, the owners of corporations as stockholders, employ agents otherwise irresponsible, who so manage the affairs of the corporation as to make losses, those corporations cannot ask the people to pay them, when they get none of the profits.

But the strikers must learn that the losses which come out of strikes fall at last on the *time* of the producers, for taxation comes out of the price paid for the time of the toilers. In less than sixty days, in five States, last summer, the loss from strikes amounts to many millions of dollars. Three millions, or very much of the gross sum, will fall on time, as a debt it must pay by production, before it can gain anything for itself, and the law which enforces this debt is in the nature of the law, that ordains the coincidence between causes and consequences.

Educated labor is one of the remedies for evils that strikes cannot overcome. Educated labor gives to the time employed its increased value.

"The problem which is to engage attention, and the best and most practical mode of solving it, to attain the object most desired, comprises two propositions. Is it practicable to adopt a plan by which instruction in the prerequisites for trades or mechanical industries can be made an element in our general system of education—and does the method to be adopted for this purpose require legislative sanction?

All who have experience in teaching, know that there are many youths who are incapable of real proficiency in mental acquirement, but whose capacity, taste, inclination, or inherited talent, qualify them for some special line of art, or mechanical study. It is so frequently said that such an one would make a most excellent printer, or machinist, or another has so decided a talent for this pursuit, or that occupation, that an innate predisposition for special or particular business is as undoubted as that there are special or peculiar dispositions among the youth.

If, then, to deprive a boy of the instruction he can readily acquire, because he is forced to try to acquire that for which he may labor in vain, so far as it may be useful to him in his life, or the pursuits of his life, is at least a loss of time, and a failure in effort. When it is seen that a boy has a decided talent for acquiring instruction in any other field than mental culture, ought there not to be opportunity afforded for such instruction in his youth, when the foundation of his life pursuits is being laid? Does education mean the instruction only of the mere mental capacities, whether or not it is possible to do more than teach, while the abilities to learn are not existing? Yet the mind, so unsusceptible to one branch of instruction, is craving development of capacities that would make the possessor a most useful citizen. It is not difficult to ascertain in any given number of the youth in any location under general instruction, the proportion of those who need such special education. It may not be large in one school, or school district, but in the aggregate of those sent to school this proportion is readily ascertained. It will discover itself so soon as opportunity is afforded. It is not a truism by any means, that the boy who has secured a good education is, therefore, fit for special mechanical industries. The reverse is far the more true.

Because a boy has had a good common school education, and taken all the degrees conferred by either colleges or universities, he is not thereby, or therefore, qualified to understand many important principles in their practical application to mechanical or civil engineering, not even know how to temper the metal, or test its temper, of which the ordinary tools are made for the higher branches of mechanical industry. The youth who has labored for years to take the graduation of merit in his class at college, when successful, and seeks a business that needs practical knowledge, or the reason why effects follow causes, or how to make a door, or a flue, or adapt proper ventilation to a building, or how best to arrange the heating apparatus, or to apply steam power to a machine, or generate steam and protect the boiler and machinery, is lost in the darkness of ignorance, to grope his way out, by knowledge he has then to acquire, but as to which in vain he sought instruction in the wasted years of his youth.

To solve this problem is to make a first attempt. It is true that no one method will receive general approval. There are objections, and others will be suggested, to any plan which present experience may suggest. If it is admitted that a necessity exists, and absolute imperative necessity for engrafting in the present school system a method of instruction to qualify youth for the acquirement of industrial, mechanical, technical, practical trade knowledges, then the method may be finally determined, after tentative efforts have made the process more easily accomplished.

The purpose of these remarks will hardly be complete, without at least suggesting for mature thought, a sketch of a plan to reach the object.

Establish periodically in schools of the highest grade, below the high schools, an examination, by the principal and other persons to be selected as competent, of the male youth between the ages of twelve and sixteen, as to their capacity to acquire mental instruction, dividing them into classes. Take the highest class as containing those of high capacity; the lowest, those who are of ordinary mental development; the intermediate, those who have good mental ability. Carry the examination then to the subjects these boys indicate the greatest aptitude for studying. Ascertain the relations these subjects bear to mechanical or practical science, confining the inquiry between the limits of natural philosophy, and mechanic arts. Let the leading line of examination embrace what is known as the polytechnic system, or instruction in arts and sciences, as adapted to mechanical industries.

When by this process of examination, boys are found who have special fitness for any of these subjects, organize a class to test their capacity. If this is developed, then such boys should be transferred to a high school for the instruction in mechanical sciences. This high school should unite theoretic, with practical instruction, by lectures, experiments, and use and character of tools.

When a pupil has taken his certificate from this high school, provide that all corporations chartered by the State, which for any purpose employ the higher order of mechanical industry, shall accept such pupil when a vacancy in the machine shop occurs. With two high schools in the State, and all the railroad machine shops open for the employment of industry, the practical value of a boy so taught, will make his admission into shops, both the interest, as well as the policy of the corporation.

Again. The mechanical trades are carried on by persons who employ mechanics. Let every such employer be required to take out annually a license from the State, for the business he conducts. Let the sum per annum be fixed judiciously. If such employer can show that he has in his employment, pupils with high school certificates, one or more such pupil graded to the sum of his license, he shall not be required to pay in money for his license; if not, then the money must be paid.

This is but a sketch of the practical results which may be attained, and how they are to be attained. It is presented for the single object of eliciting consideration, that thereby a better method may be secured. That such will be the result, no one ought to doubt who believes that the paramount importance of education of youth is not limited to, or confined by methods, which are exclusively adapted to mental instruction."

We have to remark that educated labor best supports itself, and is free from the temptations that beset idleness, which attaches too often to mere physical capacity to toil.

If this can be shown by any fair inference, much strength is given to our views.

To prove this, we offer the following facts, which speak their own teachings on the point we are considering.

We give the annexed table, made up by the authorities of the State penitentiary, at Philadelphia, for the year 1877:

A GENERAL

Showing the Pursuits (divided into three periods) of 257 convicts, from 18 to 25 years
State Penitentiary,

COUNTY.	Number of Prisoners.	Age.	CRIME.	Number of Convictions.	INDUSTRIAL RELATIONS.
Bradford,	1	18	Arson,	1	Unapprenticed,
Do.	1	23	Larceny,	1	do.
Do.	1	21	do.	1	do.
Do.	1	25	do.	1	do.
Do.	1	23	Burglary,	1	do.
Do.	1	20	Larceny,	2	do.
Do.	1	22	Horse stealing,	1	do.
Do.	1	23	Larceny,	1	do.
Do.	1	18	do.	1	do.
Total,	9				
Bucks,	1	20	Larceny,	1	Unapprenticed,
Do.	1	24	do.	1	do.
Do.	1	24	do.	1	do.
Do.	1	20	do.	1	do.
Do.	1	25	Burglary and larceny,	1	do.
Do.	1	24	Larceny,	1	do.
Do.	1	23	Burglary,	1	do.
Do.	1	23	do.	2	do.
Do.	1	23	do.	2	do.
Do.	1	23	do.	1	do.
Do.	1	19	Larceny and receiving,	1	do.
Do.	1	19	do. do.	1	do.
Do.	1	22	do. do.	1	do.
Do.	1	18	do. do.	1	do.
Do.	1	20	do. do.	1	Apprenticeship served,
Do.	1	22	do. do.	1	Unapprenticed,
Do.	1	19	do. do.	1	do.
Do.	1	21	do. do.	1	do.
Do.	1	24	A. and B. to rape,	1	do.
Do.	1	25	Larceny and receiving,	1	do.
Total,	20				
Carbon,	1	19	Larceny,	2	Unapprenticed,
Do.	1	19	do.	1	do.
Total,	2				
Chester,	1	25	Larceny,	1	Unapprenticed,
Do.	1	24	Burglary,	2	do.
Do.	1	24	do.	1	do.
Total,	3				
Columbia,	1	23	Burglary and larceny,	1	Unapprenticed,
Do.	1	23	do. do.	1	do.
Total,	2				
Cumberland,	1	24	Arson,	1	Unapprenticed,
Do.	1	20	do.	1	do.
Do.	1	20	Larceny and receiving,	1	do.
Do.	1	24	Arson,	1	Apprenticeship served.
Do.	1	23	Horse stealing,	1	Unapprenticed,
Do.	1	24	Larceny,	1	do.
Do.	1	25	do.	1	do.
Total,	7				
Dauphin,	1	24	Larceny,	1	Unapprenticed,
Do.	1	18	Burglary and larceny,	1	do.
Do.	1	23	Larceny,	1	do.
Do.	1	24	do.	1	do.
Do.	1	21	do.	1	do.
Do.	1	19	Burglary and larceny,	1	do.
Do.	1	23	Larceny,	1	do.
Do.	1	23	do.	1	do.
Do.	1	24	do.	2	do.
Do.	1	23	do.	1	do.
Do.	1	20	do.	1	do.

COUNTY EXHIBIT,

of age, with their educational relations, etc., who were admitted into the Eastern during the year 1877.

EDUCATIONAL RELATIONS.		THREE PERIODS.		
	School.	Pursuit, 18 to 21.	Pursuit, 21 to 25.	Pursuit at Arrest.
Read and write,	Public school,	Miner,		Idle.
do.	do.	Laborer,	Laborer,	Laborer.
do.	do.	do.	Blacksmith,	Idle.
Illiterate,	Never went,	do.	Laborer,	Idle.
Read and write,	Public school,	do.	do.	Idle.
do.	Never went,	Laborer,		Laborer.
do.	Public school,	Miller,	Laborer,	Driver.
do.	do.	Laborer,	do.	Idle.
Illiterate,	Never went,	do.		Idle.
Read and write,	Public school,	Laborer,		Idle.
do.	do.	do.	Laborer,	Idle.
do.	do.	Clerk,	do.	Peddler.
do.	do.	Laborer,		Idle.
do.	do.	Jeweler,	Idle,	Idle.
do.	do.	Machinist,	Harness-maker,	Idle.
do.	do.	Butcher,	Butcher,	Idle.
do.	do.	Laborer,	Laborer,	Idle.
do.	do.	do.	Waiter,	Idle.
do.	do.	do.	Printer,	Idle.
do.	do.	Huckster,		Idle.
Illiterate,	Never went,	Carpenter,		Idle.
Read and write,	Public school,	Laborer,	Laborer,	Idle.
do.	Never went,	do.		Idle.
do.	Public school,	do.		Idle.
Illiterate,	Never went,	do.	Laborer,	Idle.
Read and write,	Public school,	do.		Idle.
do.	do.	do.		Idle.
Illiterate,	Never went,	Miner,	Miner,	Idle.
Read and write,	Public school,	Printer,	Printer,	Idle.
Read and write,	Public school,	Boatman,		Idle.
do.	do.	do.		Idle.
Read and write,	Public school,	Laborer,	Laborer,	Laborer.
Illiterate,	Never went,	do.	do.	Idle.
Read and write,	Public school,	Sailor,	Sailor,	Idle.
Illiterate,	Never went,	Laborer,	Laborer,	Idle.
Read and write,	Public school,	Shoe-maker,	Idle,	Idle.
Read and write,	Public school,	Laborer,	Laborer,	Idle.
do.	do.	Pump-maker,		Idle.
Illiterate,	Never went,	Laborer,		Idle.
Read and write,	Public school,	do.	Laborer,	Idle.
do.	do.	do.	Idle,	Idle
do.	do.	Miner,	Miner,	Idle.
Illiterate,	Never went,	Carpenter,	Carpenter,	Idle.
Read and write,	Public school,	Cabinet-maker,	Cabinet-maker,	Cabinet-maker
do.	do.	Huckster,		Idle.
do.	do.	Laborer,	Laborer,	Idle.
do.	do.	do.	do.	Idle.
do.	do.	do.		Idle.
do.	do.	Baker,		Idle.
do.	do.	do.	Baker,	Idle.
do.	do.	Waiter,	Brick-layer,	Idle.
do.	do.	Carpenter,	Idle,	Idle.
do.	do.	Laborer,	Laborer,	Laborer.
do.	do.	do.		Idle.

A General County

COUNTY.	Number of prisoners.	Age.	CRIME.	Number of convictions.	INDUSTRIAL RELATIONS.
Dauphin,	1	18	Burglary,	1	Unapprenticed,
Do.	1	23	do.	1	do.
Do.	1	22	Larceny,	1	Apprenticed and left,
Do.	1	25	Receiving stolen goods,	2	Unapprenticed,
Do.	1	22	Forgery,	2	do.
Do.	1	19	Burglary and larceny	2	do.
Do.	1	21	Larceny,	2	do.
Do.	1	18	do.	1	do.
Total,	19				
Franklin,	1	25	Larceny,	2	Unapprenticed,
Do.	1	23	Burglary,	1	do.
Total,	2				
Lebanon,	1	18	Ass'lt and bat., to kill,	1	Unapprenticed,
Do.	1	21	Burglary and larceny,	1	do.
Do.	1	21	Rape,	1	do.
Do.	1	21	Horse-stealing,	1	do.
Total,	4				
Luzerne,	1	25	Larceny,	1	Unapprenticed,
Do.	1	24	do.	1	do.
Do.	1	19	do.	1	do.
Do.	1	21	do.	1	do.
Do.	1	20	Robbery,	1	do.
Do.	1	18	Murder second degree,	1	do.
Do.	1	20	Assl't and bat,, to kill,	1	do.
Do.	1	21	Horse-stealing,	1	do.
Do.	1	21	Burglary and larceny,	1	do.
Do.	1	21	Burglary and robbery,	1	do.
Do.	1	23	Larceny,	1	Apprenticed and served,
Do.	1	22	Burglary,	1	Unapprenticed,
Do.	1	25	Arson,	1	do.
Do.	1	19	Assault and battery,	1	do.
Do.	1	22	do. do.	1	do.
Do.	1	22	Burglary,	1	do.
Do.	1	21	Rape,	1	do.
Do.	1	21	do.	1	do.
Do.	1	21	Burglary, &c.,	1	do.
Do.	1	23	Larceny,	1	do.
Do.	1	23	do.	1	do.
Do.	1	25	Ass'lt and bat., to rape,	1	do.
Do.	1	24	Arson,	1	do.
Do.	1	18	Burglary,	1	do.
Do.	1	22	Larceny,	1	do.
Do.	1	18	Assault and battery,	1	do.
Do.	1	22	Manslaughter,	1	do.
Total,	27				
Lycoming,	1	21	Larceny and receiving,	1	Unapprenticed,
Do.	1	21	Burglary,	1	do.
Do.	1	19	do.	1	do.
Do.	1	22	Larceny and receiving,	1	do.
Do.	1	25	Larceny, &c.,	1	do.
Do.	1	21	Burglary,	2	do.
Do.	1	22	do.	1	do.
Do.	1	23	do.	1	do.
Do.	1	20	Larceny,	2	do.
Do.	1	20	do.	1	do.
Do.	1	22	do.	2	do.
Do.	1	23	do.	1	do.
Do.	1	22	do.	1	do.
Do.	1	22	Burglary,	2	do.
Do.	1	20	Larceny,	1	Apprenticed and served,
Do.	1	24	Larceny and receiving,	1	Unapprenticed,
Total,	16				
Montgomery,	1	24	Burglary,	2	Unapprenticed,
Do.	1	23	Burglary and larceny,	2	do.
Do.	1	21	do. do.	1	do.
Do.	1	22	do. do.	2	do.
Do.	1	25	Larceny,	1	do.

Exhibit—*Continued.*

EDUCATIONAL RELATIONS.		THREE PERIODS.		
	School.	Pursuit, 18 to 21.	Pursuit, 21 to 25.	Pursuit at arrest.
Read and write,	Public school,	Laborer,		Idle.
do.	do.	do.	Laborer,	Idle.
do.	do,	do.	do.	Idle.
do.	do.	Glass-blower,	Glass-blower,	Idle.
do.	do.	Laborer,	Laborer,	Laborer.
do.	do.	Idle,		Idle.
do	do.	do.		Idle.
do	do.	do.		Idle.
Illiterate,	Never went,	Shoe-maker,	Shoe-maker,	Idle.
Read and write,	Public school,	Stone-cutter,	Stone-cutter,	Idle.
Read and write,	Public school,	Idle,		Idle.
do.	do.	Laborer,		Idle.
do.	do.	do.	Idle,	Idle.
do.	do.	Clerk,	Clerk,	Idle.
Illiterate,	Never went,	Laborer,	Mining,	Mining.
Read and write,	Public school,	do.	Laborer,	Idle.
do.	do.	Glass-maker,		Idle.
do.	do.	Idle,	Idle,	Idle.
Illiterate,	Never went,	Laborer,		Idle.
Read and write,	Public school,	Driver,		Driver.
Illiterate,	Private school,	Laborer,		Idle.
Read and write,	Public school,	Miner,	Idle,	Idle.
do.	do.	Idle,	do.	Idle.
do.	do.	Miner,	do.	Idle.
Illiterate,	Never went,	Tailor,	Tailor,	Idle.
Read and write,	Public school,	Machinist,	Engineer,	Idle.
Illiterate,	Never went,	Idle,	Idle,	Idle.
do.	do.	Miner,		Miner.
do.	do.	Laborer,	Idle,	Idle.
Read and write,	Public school,	do.	Laborer,	Laborer.
do.	do.	do.	do.	Idle.
do.	do.	do.	do.	Idle.
Illiterate,	Never went,	Carpenter,	Idle,	Idle.
Read and write,	Public school,	Telegraphist,	Telegraphist,	Idle.
do.	do.	Laborer,	Laborer,	Laborer.
Illiterate,	Never went,	Stone-cutter,	Stone-cutter,	Stone-cutter.
Read and write,	Public school,	Laborer,	Mining,	Idle.
do.	do.	do.		Idle.
do.	do.	do.	Laborer,	Idle.
Illiterate,	Never went,	do.		Idle.
Read and write,	Public school,	Clerk,	Clerk,	Idle.
Illiterate,	Never went,	Laborer,	Idle,	Idle.
Read and write,	Public school,	do.	do.	Idle.
do.	do.	do.		Idle.
do.	do.	Carpenter,	Carpenter,	Idle.
do.	do.	Boatman,	Fireman,	Idle.
do.	do.	Idle,	Idle,	Idle.
do.	do.	Laborer,	Laborer,	Idle.
do.	do.	Sailor,	Sailor,	Idle.
do.	do.	Laborer,		Idle.
do.	do.	Idle,		Idle.
Illiterate,	Never went,	Shoe-maker,	Shoe-maker,	Idle.
Read and write,	Public school,	Laborer,	Idle,	Idle.
do.	do.	do.	do.	Idle.
Illiterate,	Never went,	Carpenter,	Carpenter,	Idle.
Read and write,	Public school,	Laborer,		Idle.
do.	do.	Carpenter,	Carpenter,	Idle.
Read and write,	Public school,	Laborer,	Idle,	Idle.
do.	do.	do.	Moulder,	Idle.
Illiterate,	Never went,	do.	Laborer,	Laborer.
Road and write,	Public school,	do.	do.	Idle.
do.	Never went,	do.	do.	Laborer.

A General County

COUNTY.	Number of prisoners.	Age.	CRIME.	Number of convictions.	INDUSTRIAL RELATIONS.
Montgomery,	1	21	Burglary and larceny,	1	Unapprenticed,
Do.	1	23	do. do.	1	do.
Total,	7				
Monroe,	1	24	Larceny,	1	Unapprenticed,
Do.	1	24	do.	1	do.
Total,	2				
Northumberland,	1	22	Larceny,	1	Unapprenticed,
Do.	1	18	Burglary,	1	do.
Do.	1	21	Larceny,	1	do.
Do.	1	24	Forgery,	2	do.
Do.	1	22	Burglary, &c.,	3	do.
Do.	1	21	Burglary,	1	do.
Do.	1	23	Rape,	1	do.
Total,	7				
Susquehanna,	1	20	Larceny and receiving,	1	Unapprenticed,
Do.	1	24	Larceny, &c.,	1	do.
Do.	1	25	Arson,	1	do.
Do.	1	19	Burglary,	1	Apprenticeship served,
Do.	1	22	Larceny,	1	Unapprenticed,
Do.	1	22	do.	1	do.
Do.	1	23	do.	1	do.
Total,	7				
Snyder,	1	23	Larceny,	1	Unapprenticed,
Total,	1				
Tioga,	1	24	Larceny,	1	Unapprenticed,
Do.	1	23	do.	2	do.
Do.	1	20	Ass't and bat. to ravish,	1	do.
Total,	3				
Union,	1	18	Larceny.	1	Unapprenticed,
Total,	1				
Wayne,	1	24	Larceny, &c.,	1	Unapprenticed,
Do.	1	19	Burglary and larceny,	2	do.
Do.	1	18	do. do.	1	do.
Do.	1	23	Rape,	1	do.
Do.	1	23	Larceny and receiving,	1	do.
Do.	1	23	do. do.	1	do.
Total,	6				
York,	1	23	Larceny and receiving,	1	Unapprenticed,
Do.	1	18	Arson,	2	do.
Do.	1	21	Larceny and receiving,	1	do.
Do.	1	19	Robbery, &c.,	1	do.
Do.	1	21	Larceny, &c.,	1	do.
Do.	1	24	Robbery, &c.,	1	do.
Do.	1	23	Larceny, &c.,	2	do.
Do.	1	21	Larceny,	2	do.
Do.	1	23	do.	1	do.
Do.	1	25	Misdemeanor,	1	do.
Do.	1	22	Robbery,	2	do.
Do.	1	23	do.	1	do.
Do.	1	23	Burglary,	1	do.
Do.	1	23	do.	1	do.
Do.	1	23	do.	1	do.
Do,	1	23	do.	1	do.
Total,	16				
United States District Court,	1	24	Secreting letters,	1	Apprenticeship served,
Do. do.	1	21	Forgery,	1	Unapprenticed,
Do. do.	1	23	Pas'g counterfeit money	1	do.
Do. do.	1	22	Counterfeiting,	1	do.
Do. do.	1	25	Misdemeanor,	1	do.

Exhibit—*Continued.*

EDUCATIONAL RELATIONS.		THREE PERIODS.		
	School.	Pursuit, 18 to 21.	Pursuit, 21 to 25.	Pursuit at arrest.
Read and write,	Public school,	Butcher,	Idle,	Butcher.
Illiterate,	Never went,	Laborer,	Laborer,	Idle.
Read and write,	Public school,	Laborer,	Laborer,	Laborer.
do.	do.	Machinist,	do.	Laborer.
Read and write,	Public school,	Boatman,	Tailor,	Laborer.
do.	do.	Idle,		Idle.
do.	do.	Brick-maker,	Idle,	Laborer.
do.	do.	Laborer,	Bar-tender,	Idle.
do.	do.	Cigar-maker,	Laborer,	Idle.
do,	do.	Idle,	Idle,	Idle.
Illiterate,	do.	Laborer,	Laborer,	Laborer.
Read and write,	Public school.	Laborer,		Idle.
do.	do.	do.	Steward,	Idle.
do.	do.	do.	Laborer,	Laborer.
do.	do.	Jeweler,		Idle.
do.	do.	Laborer,	Laborer,	Idle.
do.	do.	do.	do.	Idle.
do.	do.	do.	do.	Idle.
Illiterate,	Never went,	Laborer,	Laborer,	Laborer.
Read and write,	Public school,	Varnisher,	Varnisher,	Idle.
do.	do.	Laborer,	Idle,	Idle.
Illiterate,	Never went,	do.		Idle.
Read and write,	Public school,	Laborer,		Idle.
Read and write,	Public school,	Carpenter,	Carpenter,	Idle.
do.	Never went,	Idle,		Idle.
do.	Public school,	Laborer,		Laborer.
do.	do.	do.	Laborer,	Idle.
Illiterate,	Never went,	do.	do.	Idle.
Read and write,	Public school,	do.	do.	Idle.
Read and write,	Public school,	Laborer,	Laborer,	Laborer.
Illiterate,	Never went,	do.		Idle.
Read and write,	Public school,	do.	Laborer,	Laborer.
Illiterate,	Never went,	do.		Laborer.
do.	do.	do.	Laborer,	Laborer.
Read and write,	do.	do.	do.	Idle.
do.	Public school,	Huckster,	Huckster,	Idle.
do.	do.	Laborer,	Idle,	Idle.
Illiterate,	Never went,	do.	Laborer,	Idle.
Read and write,	Public school,	Printer,	Printer,	Idle.
do.	do.	do.	Laborer,	Idle.
Illiterate,	Never went,	Moulder,	do.	Idle.
do.	do.	Laborer,	do.	Idle.
Read and write,	Public school,	do.	do.	Laborer.
do.	do.	do.	do.	Idle.
do.	do.	do.	do.	Laborer.
Read and write,	Public school,	Laborer,	Idle,	Idle.
do,	do.	do.	do.	Idle.
do.	do.	Idle,	do.	Idle.
do.	do.	do.	do.	Idle.
do.	do.	Huckster,	Huckster,	Idle.

A General County

COUNTY.	Number of prisoners.	Age.	CRIME.	Number of convictions.	INDUSTRIAL RELATIONS.
United States District Court,	1	21	Misdemeanor,	1	Unapprenticed,
Do. do.	1	22	Manslaughter,	1	do.
Do. do.	1	24	Burglary,	1	do.
Do. do.	1	24	do.	1	do.
Do. do.	1	23	Pas'g counterfeit money	1	Apprenticeship served.
Do. do.	1	19	Forgery,	2	do. do.
Do. do.	1	25	Pas'g counterfeit money	1	Unapprenticed.
Do. do.	1	21	do. do.	1	do.
Do. do.	1	25	do. do.	1	do.
Do. do.	1	21	do. do.	1	do.
Total,	15				
Philadelphia,	1	22	Larceny,	2	Unapprenticed,
Do.	1	20	Attempt larceny,	1	do.
Do.	1	23	Larceny,	2	do.
Do.	1	21	Attempt larceny,	2	do.
Do.	1	23	Larceny,	2	do.
Do.	1	23	do.	2	do.
Do.	1	22	do.	1	do.
Do.	1	23	do.	2	do.
Do.	1	22	do.	2	do.
Do.	1	20	Robbery,	1	do.
Do.	1	23	do.	1	Apprenticeship served,
Do.	1	21	Attempt larceny,	1	Unapprenticed,
Do.	1	19	Burglary,	2	do.
Do.	1	20	do.	3	do.
Do.	1	23	Attempt larceny,	3	do.
Do.	1	23	Burglary,	2	do.
Do.	1	19	Larceny,	2	do.
Do.	1	25	Burglary,	1	do.
Do.	1	25	do.	1	do.
Do.	1	23	do.	1	do.
Do.	1	23	Robbery,	1	do.
Do.	1	19	Larceny,	1	do.
Do.	1	23	Burglary,	1	do.
Do.	1	18	Larceny,	1	do.
Do.	1	19	Attempt larceny,	1	do.
Do.	1	21	Receiving stolen goods,	1	do.
Do.	1	22	Larceny,	1	do.
Do.	1	21	do.	1	do.
Do.	1	20	do.	1	Apprenticeship served,
Do.	1	20	do.	1	Unapprenticed,
Do.	1	21	do.	1	Apprenticed and left,
Do.	1	22	Attempt larceny,	2	Unapprenticed,
Do.	1	25	Larceny	2	do.
Do.	1	25	do.	3	do.
Do.	1	22	do.	2	do.
Do.	1	24	Carrying weapon,	3	do.
Do.	1	20	Larceny,	1	do.
Do.	1	20	do.	1	do.
Do.	1	21	do.	2	do.
Do.	1	19	do.	2	do.
Do.	1	25	Burglary,	4	do.
Do.	1	23	Attempt burglary,	2	do.
Do.	1	23	do.	3	do.
Do.	1	19	Murder, second degree,	2	do.
Do.	1	21	Rape,	1	do.
Do.	1	19	do.	1	do.
Do.	1	24	do.	1	do.
Do.	1	23	Robbery,	1	do.
Do.	1	24	do.	1	do.
Do.	1	24	Arson,	1	do.
Do.	1	19	Burglary,	2	do.
Do.	1	24	do.	4	do.
Do.	1	23	Rape,	1	do.
Do.	1	21	do.	1	do.
Do.	1	19	Burglary,	2	do.
Do.	1	19	do.	3	do.
Do.	1	20	do.	1	do.
Do.	1	24	Entering store to steal,	1	do.
Do.	1	21	Forgery,	1	do.
Do.	1	24	Burglary,	1	do.
Do.	1	21	Ass't and bat., to kill,	2	do.
Do.	1	19	do. do.	1	do.
Do.	1	22	Conspiracy *vs.* Property,	3	do.
Do.	1	24	Burglary,	2	do.

Exhibit—*Continued.*

EDUCATIONAL RELATIONS.		THREE PERIODS.		
	School.	Pursuit, 18 to 21.	Pursuit, 21 to 25.	Pursuit at arrest.
Illiterate,	Public school,	Idle,	Idle,	Idle.
do.	Never went,	Laborer,	Laborer,	Idle.
do.	do.	Shoe-maker,	do.	Idle.
Read and write,	Public school,	Laborer,	do.	Idle.
do.	do.	Idle,	Idle,	Idle.
do.	do.	Printer.		Idle.
do.	do.	Idle,	Idle,	Idle.
do.	do.	Bar-tender,	Bar-tender,	Idle.
Illiterate,	Never went,	Laborer,	Laborer,	Idle.
Read and write,	Public school,	do.	Idle,	Idle.
Read and write,	Public school,	Laborer,	Laborer,	Laborer.
do.	do.	do.		Idle.
do.	do.	Shoe-maker,	Idle,	Idle.
do.	do.	Idle,	do.	Idle.
do.	do.	Shoe-maker,	Shoe-maker,	Idle.
do.	do.	Laborer,	Sailor,	Idle.
do.	do.	do.	Idle,	Idle.
do.	do.	do.	Laborer,	Idle.
do.	do.	do.	do.	Idle.
Illiterate,	Never went,	do.		Idle.
Read and write.	Public school,	do.	Laborer,	Laborer.
do.	do.	do.	Idle,	Idle.
Illiterate,	Never went,	Idle,		Idle.
Read and write,	Public school,	Sawyer,		Idle.
do.	do.	Cigar-maker,	Idle,	Idle.
do.	do.	Laborer,	Laborer,	Idle.
do.	do.	do.		Idle.
do.	do.	do.	Laborer,	Idle.
do.	do.	do.	do.	Idle.
do.	do.	do.	do.	Idle.
do.	do.	do.	Idle,	Idle.
do.	Never went,	Idle,		Idle.
do.	Public school,	Laborer,	Laborer,	Laborer.
do.	do.	Idle,		Idle.
do.	Never went,	Brick-layer,		Idle.
do.	Public school,	Printer,	Idle,	Idle.
do.	do.	Laborer,	Laborer,	Idle.
do.	do.	Idle,	Idle,	Idle.
do.	do.	Errand boy,		Idle.
do.	Never went,	Driver,		Idle.
do.	Public school,	Laborer,	Laborer,	Laborer.
do.	do.	Shoe-maker,	Idle,	Idle.
do.	do.	Huckster,	Huckster,	Idle.
do.	Never went,	Blacksmith,	Blacksmith,	Idle.
do.	Public school,	Teamster,	Teamster,	Teamster.
do.	Never went,	Machinist,	Idle,	Idle.
do.	do.	Idle,		Idle.
do.	Public school,	Laborer,		Idle.
do.	do.	do.	Laborer,	Idle.
do.	Never went,	do.		Bar-tender.
do,	Public school,	Upholsterer,	Upholsterer,	Upholsterer.
do.	do.	Idle,	Idle,	Laborer.
do.	do.	Laborer,	do.	Idle.
do.	Never went,	Huckster,		Idle.
do.	Public school,	Laborer,	Weaver,	Laborer.
do.	do.	do.		Laborer.
do.	do.	Boatman,	Idle,	Idle.
do.	do.	Painter,	Painter,	Idle.
do.	do.	Blacksmith,	Army,	Idle.
do.	do.	Laborer,	Baker,	Baker.
do.	do.	Carpenter,		Idle.
do.	do.	Laborer,	Laborer,	Idle.
do.	do.	Gas-fitter,	Gas-fitter,	Gas-fitter.
do.	do.	Laborer,	Idle,	Idle.
do.	do.	do.		Idle.
do.	do.	Shoe-maker,		Idle.
do.	do.	Stone-cutter,		Idle.
do.	do.	Bar-tender,	Bar-tender,	Idle.
do.	do.	Idle,	Laborer,	Idle.
do.	do.	Laborer,	Idle,	Idle.
Illiterate,	Never went,	do.	do.	Idle.
do.	do.	Glass-blower,		Glass-blower.
Read and write,	Public school,	Trunk-maker,	Idle,	Idle.
do.	do.	Laborer,	Laborer,	Idle.

A General County

COUNTY.	Number of prisoners.	Age.	CRIME.	Number of convictions.	INDUSTRIAL RELATIONS.
Philadelphia,	1	21	Larceny,	1	Unapprenticed,
Do.	1	25	Ass't and bat., to kill,	1	do.
Do.	1	24	Robbery,	1	do.
Do.	1	23	Larceny,	2	do.
Do.	1	23	Forgery,	1	do.
Do.	1	23	Larceny.	3	do.
Do.	1	23	do.	1	do.
Do.	1	22	do.	1	do.
Do.	1	19	Ass't and bat., to kill,	1	do.
Do.	1	21	Robbery,	2	do.
Do.	1	22	do.	1	do.
Do.	1	25	Burglary,	1	do.
Do.	1	19	do.	2	do.
Do.	1	21	do.	1	do.
Do.	1	22	do.	1	do.
Do.	1	20	Larceny,	2	do.
Do.	1	20	do.	1	do.
Total,	81				

Exhibit—*Continued.*

EDUCATIONAL RELATIONS.		THREE PERIODS.		
	School.	Pursuit, 28 to 21.	Pursuit, 21 to 25.	Pursuit at arrest.
Read and write,	Public school,	Printer,	Idle,	Idle.
do.	do.	Idle,	do.	Idle.
do.	do.	do.	Laborer,	Idle.
do.	do.	Laborer,	Idle,	Idle.
do.	do.	Carpenter,	do.	Idle.
do.	do.	Laborer,	Laborer,	Idle.
do.	do.	do.	do.	Idle.
do.	do.	Clerk,	Clerk,	Idle.
do.	do.	Idle,		Idle.
do.	do.	do.	Idle,	Idle.
do.	Never went,	Laborer,	Laborer,	Idle.
do.	Public school,	Moulder,	Moulder,	Idle.
do.	do.	Laborer,		Idle.
do.	do,	do.	Idle,	Idle.
do.	do.	do.	Laborer,	Idle.
do.	do.	Idle,		Idle.
do.	do.	Laborer,		Idle.

These tables show the proportion of unapprenticed youth, or young men who having no handicraft, skilled occupation, and are "laborers," in their unemployed condition commit crime.

They also prove that instructed, or as it is called, educated labor, mechanics, rarely are forced into crime from idleness.

From these tables it is seen that the training which is obtained by the public school system of instruction does not tend to prevent crime, because it fails to impart such useful knowledge that can be available in learning trade industries.

Dividing the whole number of convicted persons into the localities from which they came, tends to indicate that the principle, we notice, is not confined to any special locality.

The age of those comprised in these tables is of great importance in considering the views we have suggested in this paper.

Legislation, if legislation can be made effective as a remedy for the evils here demonstrated to exist, and to be growing in our social system, is imperatively demanded.

The industrial classes are as positively and directly interested in the remedy as any other sub-division of the community. We are one of those who believe infinitely more so than any other of our people.

If, considering the subject of strikes, a nearer view of it is consistent with its economic phase, as bearing on the results of this proposed protection of the workers, we have here only sought to evoke it.

1. Our purpose is to show: That time and not the labor of production, is the basis of wages;

2. That wages is the price paid for employed time;

3. That the value of unemployed time is most generally depreciated by the physical work of machinery, in coöperation with physical man-work;

4. That strikes cannot appreciate, or increase, the value of time, in money;

5. That educated labor adds to the price of the time of its possessor;

6. That uneducated labor has the most time unemployed, and idleness is its consequent condition:

7. That idleness frequently accepts the temptations to commit crime;

8. That strikes are the resistance to oppression by force, and, whatever may be their justification, they fail to enhance the money value of the unemployed time of the operative.

The suggestions we have made in this paper are not offered to the reader as infallible, nor as dogmatic, neither as exclusive of other theories, but solely for the purpose of inviting the attention of those who are engaged in the discussion of some of the social and politico-economic questions, which excite at present public attention, to a theory, which if only a theory and nothing more, has the merit which belongs to all speculative instructions from general principles.

FINANCIAL.

Treasury Department,
Office of Comptroller of the Currency,
Washington, *January 2, 1878.*

Sir: I have received your letter of the 28th ult., and, in accordance with your request, inclose herewith the following statements:

1. Abstracts of reports made to the Comptroller of the Currency, showing the condition of the National banks in Pennsylvania, and of those in Philadelphia and Pittsburgh, at the close of business, on the 22d of June, and 1st of October, 1877.

2. Capital, surplus, dividends, and earnings of the National banks in Pennsylvania, and in Philadelphia and Pittsburgh, with the ratios of dividends to capital, and to capital and surplus, and of earnings to capital and surplus, semi-annually from March 1, 1869, to September 1, 1877, as reported to the Comptroller of the Currency.

3. National banks in Pennsylvania, with the amount of capital stock and circulation of each, on October 1, 1877, as shown by the books of the office of the Comptroller of the Currency.

The reports of the condition of the National banks for December, 1877, have not yet been received, but if you desire it, an abstract of them will be sent you when completed.

Very respectfully,

JNO. JAY KNOX,
Comptroller.

W. H. Grier, Esq.,
Chief Bureau Industrial Statistics, Harrisburg, Pa.

NATIONAL BANKS IN THE STATE OF PENNSYLVANIA,

With the amount of capital stock and circulation outstanding of each, October 1, 1877, as shown by the books of the Office of the Comptroller of the Currency.

Location.	Title.	Charter number.	Capital.	Circulation outstanding
Allegheny,	First National Bank,	198	$350,000	$313,200
Do.	Second National Bank,	776	150,000	117,000
Do.	Third National Bank,	2235	200,000	90,000
Do.	German National Bank,	2261	200,000	105,300
Allentown,	Second National Bank,	373	250,000	225,000
Do.	Allentown National Bank,	1322	500,000	180,000

NATIONAL BANKS—Continued.

LOCATION.	Title.	Charter number.	Capital.	Circulation outstanding
Altoona,	First National Bank,	247	$150,000	$135,000
Ashland,	Citizens' National Bank,	2280	60,000	53,400
Athens,	First National Bank,	1094	100,000	90,000
Bellefonte,	First National Bank,	459	100,000	90,000
Berwick,	First National Bank,	568	75,000	27,000
Bethlehem,	First National Bank,	138	300,000	268,000
Do.	Lehigh Valley National Bank,	2050	300,000	264,700
Birmingham,	First National Bank,	926	100,000	90,000
Blairsville,	First National Bank,	867	80,000	71,960
Bloomsburg,	First National Bank,	293	50,000	45,000
Boyertown,	National Bank of,	2137	100,000	90,000
Bristol,	Farmers' National Bank of Bucks County,	717	92,220	76,785
Brownsville,	First National Bank,	135	75,000	65,900
Do.	Monongahela National Bank,	648	200,000	175,040
Butler,	First National Bank,	309	100,000	90,000
Carbondale,	First National Bank,	664	110,000	45,000
Catasauqua,	National Bank of,	1411	500,000	270,000
Chambersburg,	National Bank of,	593	260,000	234,000
Chester,	First National Bank,	332	100,000	90,000
Do.	Delaware County National Bank,	355	300,000	197,805
Clarion,	First National Bank,	774	100,000	66,000
Clearfield,	First National Bank,	768	100,000	90,000
Do.	County National Bank,	855	100,000	67,500
Coatesville,	National Bank of Chester Valley,	575	200,000	180,000
Columbia,	First National Bank,	371	200,000	175,400
Do.	Columbia National Bank,	641	500,000	267,960
Conneautville,	First National Bank,	143	100,000	90,000
Connellsville,	First National Bank,	2329	50,000	44,000
Conshohocken,	First National Bank,	2078	150,000	133,900
Corry,	First National Bank,	605	100,000	90,000
Do.	Corry National Bank,	569	100,000	90,000
Danville,	First National Bank,	325	150,000	132,112
Do.	Danville National Bank,	1078	200,000	156,000
Downingtown,	Downingtown National Bank,	661	100,000	90,000
Doylestown,	Doylestown National Bank,	573	105,000	93,500
Easton,	First National Bank,	1171	400,000	360,000
Do.	Easton National Bank,	1233	500,000	399,500
Erie,	First National Bank,	12	150,000	145,500
Do.	Second National Bank,	606	300,000	260,000
Do.	Keystone National Bank,	535	250,000	155,600
Do.	Marine National Bank,	870	150,000	127,000
Franklin,	First National Bank,	189	100,000	88,300
Freeport,	First National Bank,	2286	50,000	43,400
Gettysburg,	First National Bank,	311	100,000	89,000
Do.	Gettysburg National Bank,	611	145,150	130,496
Girard,	First National Bank,	54	100,000	89,000
Glen Rock,	First National Bank,	435	75,000	67,440
Green Castle,	First National Bank,	1081	100,000	90,000
Greenville,	First National Bank of West Greenville,	249	125,000	99,000
Do.	Greenville National Bank,	2251	110,000	58,060
Hanover,	First National Bank,	187	250,000	234,000
Harmony,	Harmony National Bank,	2335	50,000	45,000
Harrisburg,	First National Bank,	201	100,000	90,000
Do.	Harrisburg National Bank,	580	300,000	249,900
Hatboro',	Hatboro' National Bank,	2253	65,000	45,000
Hollidaysburg,	First National Bank,	57	50,000	45,000
Honesdale,	Honesdale National Bank,	644	300,000	158,200
Honeybrook,	First National Bank,	1676	100,000	88,980
Huntingdon,	First National Bank,	31	150,000	72,085
Indiana,	First National Bank,	313	200,000	176,800
Jenkintown,	Jenkintown National Bank,	2249	70,000	45,000
Johnstown,	First National Bank,	51	60,000	53,980
Kittanning,	First National Bank,	69	200,000	198,680
Kutztown,	National Bank of,	1875	60,000	50,000
Lancaster,	First National Bank,	333	210,000	203,000
Do.	Farmers' National Bank,	597	450,000	353,188
Do.	Lancaster County National Bank,	683	300,000	268,500
Lansdale,	First National Bank,	430	100,000	89,971
Lebanon,	First National Bank,	240	50,000	45,000
Do.	Lebanon National Bank,	680	200,000	180,000
Do.	Valley National Bank,	655	100,000	89,300
Lehighton,	First National Bank,	2308	75,000	60,300
Lewisburg,	Lewisburg National Bank,	745	100,000	75,800
Do.	Union National Bank,	784	100,000	89,970
Lewistown,	Mifflin County National Bank,	1579	100,000	88,740
Lock Haven,	First National Bank,	507	180,000	162,000
Mahanoy City,	First National Bank,	587	80,000	70,100
Manheim,	Manheim National Bank,	912	100,000	86,190
Marietta,	First National Bank,	25	100,000	98,980
Mauch Chunk,	First National Bank,	437	400,000	360,000

NATIONAL BANKS—Continued.

LOCATION.	Title.	Charter number.	Capital.	Circulation outstanding
Mauch Chunk,	Second National Bank,	469	$150,000	$132,500
McKeesport,	First National Bank,	2222	67,000	27,000
Meadville,	First National Bank,	115	100,000	90,000
Do.	Merchants' National Bank,	871	100,000	90,000
Mechanicsburg,	First National Bank,	380	100,000	89,000
Do.	Second National Bank,	326	50,000	49,500
Media,	First National Bank,	312	100,000	90,000
Mercer,	First National Bank,	392	120,000	108,000
Do.	Farmers' and Mechanics' National Bank,	2256	80,000	25,400
Meyersdale,	First National Bank,	2258	50,000	27,000
Middletown,	National Bank of,	585	100,000	90,000
Mifflinburg,	First National Bank,	174	100,000	89,000
Millersburg,	First National Bank,	2252	100,000	90,000
Millerstown,	German National Bank,	2241	50,000	45,000
Milton,	First National Bank,	253	100,000	87,070
Do.	Milton National Bank,	711	100,000	76,500
Minersville,	First National Bank,	423	100,000	90,000
Montrose,	First National Bank,	2223	100,000	45,000
Mount Joy,	First National Bank,	2667	100,000	90,000
Do.	Union National Mount Joy Bank,	1516	100,000	89,500
Mount Pleasant,	First National Bank,	386	150,000	130,325
Muncy,	First National Bank,	837	100,000	85,950
New Brighton,	National Bank of Beaver County,	632	200,000	102,800
New Castle,	First National Bank,	562	150,000	134,200
Do.	National Bank of Lawrence County,	1156	150,000	135,000
Newtown,	First National Bank,	324	100,000	89,000
Newville,	First National Bank,	60	100,000	76,180
Norristown,	First National Bank,	272	150,000	135,000
Do.	Montgomery National Bank,	1148	400,000	357,350
North East,	First National Bank,	741	50,000	45,000
Oil City,	First National Bank,	173	200,000	177,000
Oxford,	National Bank of,	728	125,000	112,500
Pennsburg,	Farmers' National Bank,	2334	100,000	90,000
Do.	Perkiomen National Bank,	2301	100,000	90,000
Philadelphia,	First National Bank,	1	1,000,000	784,090
Do.	Second National Bank,	213	300,000	250,000
Do.	Third National Bank,	234	300,000	261,590
Do.	Sixth National Bank,	350	150,000	135,000
Do.	Seventh National Bank,	413	250,000	225,000
Do.	Eighth National Bank,	522	275,000	238,750
Do.	Bank of North America,	602	1,000,000	794,780
Do.	Centennial National Bank,	2317	300,000	179,480
Do.	Central National Bank,	723	750,000	596,390
Do.	City National Bank,	543	400,000	344,920
Do.	Commercial Nat'l Bank of Pennsylvania,	556	810,000	623,000
Do.	Commonwealth National Bank,	623	208,000	187,200
Do.	Consolidation National Bank,	561	300,000	266,100
Do.	Corn Exchange National Bank,	542	500,000	296,200
Do.	Farmers' and Mechanics' National Bank,	538	2,000,000	961,500
Do.	Girard National Bank,	592	1,000,000	592,000
Do.	Kensington National Bank,	541	250,000	224,000
Do.	Keystone National Bank,	2291	200,000	103,500
Do.	Manufacturers' National Bank,	557	1,000,000	623,280
Do.	Mechanics' National Bank,	610	800,000	260,650
Do.	National Bank of Commerce,	547	250,000	181,685
Do.	National Bank of Germantown,	546	200,000	179,700
Do.	National Bank of the Northern Liberties,	541	500,000	436,772
Do.	National Bank of the Republic,	1647	600,000	480,000
Do.	National Security Bank,	1743	250,000	168,510
Do.	Penn National Bank,	540	500,000	208,700
Do.	Philadelphia National Bank,	539	1,500,000	713,000
Do.	Southwark National Bank,	560	250,000	85,500
Do.	Tradesmen's National Bank,	570	200,000	178,197
Do.	Union National Bank,	563	500,000	232,400
Do.	Western National Bank,	656	400,000	321,700
Phœnixville,	Farmers' and Mechanics' National Bank,	1936	150,000	135,000
Do.	National Bank of,	674	200,000	178,100
Pittsburg,	First National Bank,	48	750,000	45,000
Do.	Second National Bank,	252	300,000	45,000
Do.	Third National Bank,	291	500,000	348,450
Do.	Fourth National Bank,	432	300,000	269,955
Do.	Fifth National Bank,	1894	100,000	90,000
Do.	Allegheny National Bank,	722	500,000	450,000
Do.	Citizens' National Bank,	619	800,000	462,600
Do.	Diamond National Bank,	2236	200,000	45,000
Do.	Duquesne National Bank,	2278	200,000	45,000
Do.	Exchange National Bank,	1057	1,700,000	608,458
Do.	Farmers' Deposit National Bank,	685	300,000	90,000
Do.	German National Bank,	757	250,000	225,000
Do.	Iron City National Bank,	675	400,000	285,490

NATIONAL BANKS—Continued.

LOCATION.	Title.	Charter number.	Capital.	Circulation outstanding
Pittsburg,	Marine National Bank,	2237	$200,000	$44,000
Do.	Mechanics' National Bank,	700	500,000	323,343
Do.	Merchants' and Manufacturers' Nat'l Bank	613	800,000	90,000
Do.	Metropolitan National Bank,	2279	200,000	67,500
Do.	People's National Bank,	727	1,000,000	800,000
Do.	Pittsburg National Bank of Commerce,	668	500,000	446,500
Do.	Smithfield National Bank,	2281	200,000	89,850
Do.	Tradesmen's National Bank,	678	400,000	222,400
Do.	Union National Bank,	705	250,000	215,700
Pittston,	First National Bank,	478	500,000	441,000
Plymouth,	First National Bank,	707	100,000	90,000
Pottstown,	National Bank of,	608	300,000	268,900
Pottsville,	Government National Bank,	1152	200,000	180,000
Do.	Miners' National Bank,	649	500,000	339,400
Do.	Pennsylvania National Bank,	1663	200,000	180,000
Quakertown,	Quakertown National Bank,	2366	100,000	85,000
Reading,	First National Bank,	125	100,000	86,995
Do.	Farmers' National Bank,	696	400,020	360,000
Do.	National Union Bank,	693	200,000	180,000
Schwenksville,	National Bank of,	2142	100,000	90,000
Scranton,	First National Bank,	77	200,000	45,000
Do.	Second National Bank,	49	200,000	110,000
Do.	Third National Bank,	1946	200,000	43,400
Selinsgrove,	First National Bank,	357	100,000	90,000
Sharon,	First National Bank,	1685	125.000	112,500
Do.	Sharon National Bank,	2244	200,000	180,000
Shippensburg,	First National Bank,	884	75,000	67,500
Slatington,	National Bank of,	2293	50,000	45,000
Souderton,	Union National Bank,	2233	90,000	80,975
Spring City,	National Bank of,	2018	150,000	128,900
Strasburg,	First National Bank,	42	80,000	79,200
Sunbury,	First National Bank,	1237	200,000	85,700
Susquehanna Depot,	First National Bank,	1053	100,000	90,000
Tamaqua,	First National Bank,	1219	150,000	135,000
Tarentum,	First National Bank,	2285	50,000	45,000
Titusville,	Second National Bank,	879	300,000	270,000
Towanda,	First National Bank,	39	125,000	49,500
Do.	Citizens' National Bank,	2337	150,000	45,000
Tremont,	First National Bank,	797	75,000	67,465
Tunkhannock,	Wyoming National Bank,	835	100,000	90,000
Union City,	First National Bank of Union Mills,	110	50,000	45,000
Uniontown,	First National Bank,	270	100,000	89,850
Do.	National Bank of Fayette County,	681	100,000	90,000
Warren,	First National Bank,	520	100,000	90,000
Do.	Citizens' National Bank,	2226	50,000	45,000
Washington,	First National Bank,	586	150,000	124,000
Waynesboro',	First National Bank,	244	75,000	58,890
Waynesburg,	Farmers' and Drovers' National Bank,	839	150,000	90,000
Wellsborough,	First National Bank,	328	100,000	89,555
West Chester,	First National Bank,	148	200,000	180,000
Do.	National Bank of Chester County,	552	225,000	200,500
Wilkesbarre,	First National Bank,	30	375,000	337,500
Do.	Second National Bank,	104	450,000	200,000
Do.	Wyoming National Bank,	732	150,000	134,950
Williamsport,	First National Bank,	175	284,950	243,080
Do.	City National Bank,	2139	100,000	54,000
Do.	Lumberman's National Bank,	734	100,000	85,000
Do.	Lycoming National Bank,	2227	100,000	30,600
Do.	West Branch National Bank,	1505	100,000	90,000
Do.	Williamsport National Bank,	1464	100,000	90,000
Wrightsville,	First National Bank,	246	150,000	133,300
York,	First National Bank,	197	300,000	299,950
Do.	Farmers' National Bank,	2228	200,000	180,000
Do.	Western National Bank,	2303	100,000	90,000
Do.	York National Bank,	604	500,000	438,500
Do.	York County National Bank,	694	300,000	270,000

ABSTRACT

*Of reports made to the Comptroller of the Currency, showing the condition of the National Banks in the *State of Pennsylvania, at the close of business, on Friday, the 22d day of June, 1877.*

[*Exclusive of the cities of Philadelphia and Pittsburgh.]

Resources.

Loans and discounts,	$48,225,414	11
Overdrafts,	278,440	12
United States bonds to secure circulation,	25,902,500	00
United States bonds to secure deposits,	680,000	00
United States bonds on hand,	734,250	00
Other stocks, bonds, and mortgages,	2,783,995	47
Due from approved reserve agents,	5,995,550	67
Due from other National banks,	1,650,147	46
Due from State banks and bankers,	788,572	14
Real estate, furniture, and fixtures,	2,851,282	60
Current expenses and taxes paid,	353,038	93
Premiums paid,	629,095	55
Checks and other cash items,	557,667	79
Bills of other National banks,	1,067,517	00
Fractional currency,	102,963	77
Specie,	310,157	02
Legal tender notes,	3,880,887	00
U. S. certificates of deposit for legal tender notes,	160,000	00
Five per cent. redemption fund,	1,120,489	70
Due from United States Treasurer,	52,735	02
	$98,124,704	35

Liabilities.

Capital stock paid in,	$28,776,840	00
Surplus fund,	7,638,397	34
Other undivided profits,	2,194,245	03
National bank notes outstanding,	22,730,777	00
State bank notes outstanding,	59,835	00
Dividends unpaid,	142,209	18
Individual deposits,	33,779,210	04
United States deposits,	357,725	61
Deposits of United States disbursing officers,	4,919	14
Due to other National banks,	1,631,829	44
Due to State banks and bankers	438,374	81
Notes and bills re-discounted,	330,251	76
Bills payable,	40,090	00
	$98,124,704	35

Number of banks, 180.

ABSTRACT

Of reports made to the Comptroller of the Currency, showing the condition of the National Banks in the city of Philadelphia, at the close of business, on Friday, the 22d day of June, 1877.

Resources.

Loans and discounts,	$47,541,226	70
Overdrafts,	8,426	46
United States bonds to secure circulation,	12,752,700	00
United States bonds to secure deposits,	250,000	00
United States bonds on hand,	1,379,200	00
Other stocks, bonds, and mortgages,	3,089,393	54
Due from approved reserve agents,	4,508,374	27
Due from other National banks,	2,833,379	14
Due from State banks and bankers,	575,257	46
Real estate, furniture, and fixtures,	2,550,986	61
Current expenses and taxes paid,	207,096	54
Premiums paid,	406,695	16
Checks and other cash items,	279,638	68
Exchanges for clearing-house,	3,922,506	85
Bills of other National banks,	1,658,073	00
Fractional currency,	79,950	05
Specie,	1,389,897	80
Legal tender notes,	5,663,549	00
U. S. certificates of deposit for legal tender notes,	9,065,000	00
Five per cent. redemption fund,	565,672	64
Due from United States Treasurer,	204,117	51
	$98,931,141	41

Liabilities.

Capital stock paid in,	$16,995,000	00
Surplus fund,	7,409,468	06
Other undivided profits,	1,156,264	54
National bank notes outstanding,	10,812,273	00
State bank notes outstanding,	23,499	00
Dividends unpaid,	59,658	35
Individual deposits,	52,565,212	44
United States deposits,	188,133	52
Due to other National banks,	7,459,124	89
Due to State banks and bankers,	2,202,507	61
Bills payable,	60,000	00
	$98,931,141	41

Number of banks, 31.

ABSTRACT

Of reports made to the Comptroller of the Currency, showing the condition of the National Banks in the city of Pittsburgh, at the close of business, on Friday the 22d day of June, 1877.

Resources.

Loans and discounts,	$19,127,973	04
Overdrafts,	51,516	96
United States bonds to secure circulation,	6,280,500	00
United States bonds to secure deposits,	200,000	00
United States bonds on hand,	574,000	00
Other stocks, bonds, and mortgages,	512,632	81
Due from approved reserve agents,	1,641,831	34
Due from other National banks,	626,478	26
Due from State banks and bankers,	201,905	99
Real estate, furniture, and fixtures,	1,252,374	37
Current expenses and taxes paid,	134,892	67
Premiums paid,	146,727	59
Checks and other cash items,	162,083	25
Exchanges for clearing house,	468,278	83
Bills of other National banks,	339,708	00
Fractional currency,	37,432	06
Specie,	100,897	27
Legal tender notes,	2,452,528	00
U. S. certificates of deposit for legal tender notes,	100,000	00
Five per cent. redemption fund,	280,680	00
Due from United States Treasurer,	51,843	94
	$34,744,285	28

Liabilities.

Capital stock paid in,	$10,350,000	00
Surplus fund,	3,056,667	35
Other undivided profits,	664,396	00
National bank notes outstanding,	5,384,221	00
State bank notes outstanding,	4,340	00
Dividends unpaid,	41,353	25
Individual deposits,	12,205,850	89
United States deposits,	20,854	14
Deposits of United States disbursing officers,	100,576	12
Due to other National banks,	1,391,812	65
Due to State banks and bankers,	1,471,713	88
Notes and bills re-discounted,	2,500	00
Bills payable,	50,000	00
	$34,744,285	28

Number of banks, 22.

ABSTRACT

*Of reports made to the Comptroller of the Currency, showing the condition of the National Banks in the *State of Pennsylvania, at the close of business, on Monday the 1st day of October, 1877.*

[*Exclusive of the cities of Philadelphia and Pittsburgh.]

Resources.

Loans and discounts,	$47,275,772	28
Overdrafts,	256,038	91
United States bonds to secure circulation,	25,944,600	00
United States bonds to secure deposits,	680,000	00
United States bonds on hand,	1,220,300	00
Other stocks, bonds, and mortgages,	2,953,809	37
Due from approved reserve agents,	4,294,105	50
Due from other National banks,	1,839,686	55
Due from State banks and bankers,	850,300	70
Real estate, furniture, and fixtures,	2,825,205	06
Current expenses and taxes paid,	532,387	70
Premiums paid,	577,961	88
Checks and other cash items,	587,023	05
Bills of other National banks,	976,412	00
Fractional currency,	91,067	53
Specie,	361,377	38
Legal tender notes,	3,733,191	00
U. S. certificates of deposit for legal tender notes,	140,000	00
Five per cent. redemption fund,	1,123,012	51
Due from United States Treasurer,	59,075	90
	$96,327,327	32

Liabilities.

Capital stock paid in,	$28,634,340	00
Surplus fund,	7,615,517	08
Other undivided profits,	2,299,608	53
National bank notes outstanding,	22,877,407	00
State bank notes outstanding,	47,580	00
Dividends unpaid,	90,604	65
Individual deposits,	32,720,591	03
United States deposits,	318,682	09
Deposits of United States disbursing officers,	8,242	49
Due to other National banks,	1,194,247	51
Due to State banks and bankers,	280,551	80
Notes and bills re-discounted,	101,965	14
Bills payable,	138,090	00
	$96,327,327	32

Number of banks, 179.

ABSTRACT

Of reports made to the Comptroller of the Currency, showing the condition of the National Banks in the city of Philadelphia, at the close of business, on Monday, the 1st day of October, 1877.

Resources.

Loans and discounts,	$46,763,404	49
Overdrafts,	9,585	70
United States bonds to secure circulation,	12,838,700	00
United States bonds to secure deposits,	250,000	00
United States bonds on hand,	1,384,700	00
Other stocks, bonds, and mortgages,	2,047,966	94
Due from approved reserve agents,	4,334,354	12
Due from other National banks,	2,808,984	63
Due from State banks and bankers,	542,300	66
Real estate, furniture, and fixtures,	2,556,947	73
Current expenses and taxes paid,	596,197	81
Premiums paid,	415,694	36
Checks and other cash items,	388,118	66
Exchanges for clearing-house,	6,779,703	50
Bills of other National banks,	904,370	00
Fractional currency,	61,159	64
Specie,	1,408,708	30
Legal tender notes,	4,331,275	00
U. S. certificates of deposit for legal tender notes,	4,625,000	00
Five per cent. redemption fund,	566,782	64
Due from United Stater Treasurer,	53,817	51
	$93,667,780	79

Liabilities.

Capital stock paid in,	$16,943,000	00
Surplus fund,	7,426,978	13
Other undivided profits,	1,765,876	24
National bank notes outstanding,	11,133,594	00
State bank notes outstanding,	23,474	00
Dividends unpaid,	41,549	65
Individual deposits,	46,114,368	55
United States deposits,	190,779	85
Due to other National banks,	7,667,076	77
Due to State banks and bankers,	2,276,083	60
Bills payable,	85,000	00
	$93,667,780	79

Number of banks, 31.

ABSTRACT

Of reports made to the Comptroller of the Currency, showing the condition of the National Banks in the city of Pittsburgh, at the close of business on Monday, the 1st day of October, 1877.

Resources.

Loans and discounts,	$18,114,938	70
Overdrafts,	44,421	60
United States bonds to secure circulation,	6,054,500	00
United States bonds to secure deposits,	200,000	00
United States bonds on hand,	561,750	00
Other stocks, bonds, and mortgages,	542,009	39
Due from approved reserve agents,	1,616,094	52
Due from other National banks,	747,415	34
Due from State banks and bankers,	238,508	93
Real estate, furniture, and fixtures,	1,297,716	38
Current expenses and taxes paid,	169,150	53
Premiums paid,	153,434	92
Checks and other cash items,	115,275	29
Exchanges for clearing-house,	638,784	09
Bills of other National banks,	389,546	00
Fractional currency,	20,696	79
Specie,	95,513	42
Legal tender notes,	2,590,782	00
U. S. certificates of deposit for legal tender notes,	100,000	00
Five per cent. redemption fund,	258,680	00
Due from United States Treasurer,	32,948	76
	$33,982,166	66

Liabilities.

Capital stock paid in,	$10,350,000	00
Surplus fund,	3,063,378	92
Other undivided profits,	691,054	30
National bank notes outstanding,	5,309,246	00
State bank notes outstanding,	4,340	00
Dividends unpaid,	66,389	25
Individual deposits,	11,668,961	76
United States deposits,	84,335	56
Deposits of United States disbursing officers,	122,990	23
Due to other National banks,	1,287,531	09
Due to State banks and bankers,	1,278,829	26
Notes and bills re-discounted,	5,110	29
Bills payable,	50,000	00
	$33,982,166	66

Number of banks, 22.

DIVIDENDS AND EARNINGS

Of the National Banks in the State of Pennsylvania, and of those in Philadelphia and Pittsburgh, with their ratios to capital and surplus fund, semi-annually, from March 1, 1869, to September 1, 1877, as reported to the Comptroller of the Currency.

	No. of banks.	Capital stock.	Surplus.	Dividends.	Net earnings.	RATIOS.		
						Dividends to capital.	Dividends to capital and surplus.	Earnings to capital and surplus.
Pennsylvania, for six months ending								
August 31, 1869,	146	$23,355,020 00	$4,810,860 00	$1,296,060 00	$1,709,036 00	5.55	4.60	6.07
February 28, 1870,	149	23,905,240 00	4,974,496 90	1,331,635 00	1,811,543 00	5.57	4.61	6.27
August 31, 1870,	149	23,920,240 00	5,370,668 00	1,334,560 00	1,566,199 00	5.58	4.55	5.35
February 28, 1871,	151	24,205,240 00	5,577,481 00	1,293,860 00	1,424,050 00	5.35	4.34	4.78
August 31, 1871,	151	24,545,240 00	5,781,467 00	1,284,381 00	1,568,270 00	5.23	4.24	5.17
February 28, 1872,	153	25,255,240 00	5,998,420 00	1,353,347 00	1,638,464 00	5.36	4.33	5.24
August 31, 1872,	155	26,575,090 00	6,359,964 00	1,332,980 00	1,612,149 00	5.21	4.17	5.05
March 1, 1873,	157	27,125,240 00	6,670,671 00	1,360,783 00	1,781,134 00	5.02	4.03	5.27
September 1, 1873,	158	26,660,580 00	7,019,439 00	1,384,980 00	1,841,315 00	5.19	4.11	5.47
March 1, 1874,	157	26,775,240 00	7,207,493 00	1,276,651 00	1,698,259 00	4.77	3.76	5.00
September 1, 1874,	156	26,761,590 00	7,435,885 00	1,365,441 00	1,574,945 00	5.10	3.99	4.61
March 1, 1875,	159	27,075,240 00	7,577,135 00	1,340,510 00	1,495,391 00	4.95	3.87	4.32
September 1, 1875,	162	27,625,240 00	7,643,549 00	1,385,087 20	1,433,186 00	5.01	3.93	4.06
March 1, 1876,	177	29,340,360 00	7,788,046 00	1,389,999 00	1,600,366 00	4.74	3.74	4.31
September 1, 1876,	178	28,593,940 00	7,745,661 00	1,349,317 00	1,273,834 00	4.72	3.71	3.51
March 1, 1877,	182	29,183,840 00	7,873,970 00	1,280,223 00	1,398,644 00	4.39	3.45	3.77
September 1, 1877,	180	28,959,340 00	7,659,045 98	1,180,820 70	1,027,504 00	4.08	3.22	2.81
Philadelphia, for six months ending								
August 31, 1869,	28	16,092,150 00	6,158,302 00	979,607 00	1,178,241 00	6.09	4.40	5.29
February 28, 1870,	29	16,355,150 00	6,197,217 00	978,758 00	1,150,597 00	5.98	4.34	5.10
August 31, 1870,	29	16,255,150 00	6,498,576 00	942,058 00	1,062,048 00	5.79	4.14	4.67
February 28, 1871,	29	16,255,150 00	6,537,247 00	957,258 00	1,000,230 00	5.90	4.20	4.39
August 31, 1871,	30	16,480,150 00	6,704,033 00	942,758 00	1,023,270 00	5.70	4.06	4.41
February 28, 1872,	30	16,935,000 00	6,804,709 00	971,750 00	1,088,461 00	5.74	4.09	4.59
August 31, 1872,	29	16,735,000 00	6,821,824 00	964,250 00	1,081,428 00	5.76	4.09	4.59
March 1, 1873,	29	16,735,000 00	6,916,170 00	975,930 00	1,095,087 00	5.83	4.13	4.63
September 1, 1873,	29	16,935,000 00	7,064,979 00	983,250 00	1,127,495 00	5.81	4.09	4.70
March 1, 1874,	29	16,935,000 00	7,105,792 00	972,250 00	1,035,211 00	5.74	4.04	4.31
September 1, 1874,	29	16,935,000 00	7,189,152 00	970,500 00	1,079,687 00	5.73	4.02	4.48
March 1, 1875,	29	16,935,000 00	7,189,641 00	982,572 00	1,004,393 00	5.80	4.07	4.16
September 1, 1875,	29	16,935,000 00	7,335,957 00	924,000 00	953,885 00	5.46	3.81	3.93
March 1, 1876,	30	17,135,000 00	7,404,982 00	919,680 00	1,029,843 00	5.37	3.75	4.20
September 1, 1876,	31	17,045,000 00	7,444,223 00	914,500 00	1,032,570 00	5.37	3.73	4.22
March 1, 1877,	31	17,095,000 00	7,455,151 00	920,300 00	896,573 00	5.38	3.75	3.65
September 1, 1877,	31	16,995,000 00	7,435,630 92	856,900 00	779,842 00	5.04	3.51	3.19

DIVIDENDS AND EARNINGS—Continued.

	No. of banks.	Capital stock.		Surplus.		Dividends.		Net earnings.		RATIOS.		
										Dividends to capital.	Dividends to capital and surplus.	Earnings to capital and surplus.
Pittsburgh, for six months ending												
August 31, 1869,	15	$8,700,000	00	$2,086,777	00	$479,500	00	$626,066	00	5.51	4.44	5.80
February 28, 1870,	15	8,700,000	00	2,171,125	00	447,500	00	561,630	00	5.14	4.12	5.17
August 31, 1870,	16	9,000,000	00	2,235,774	00	464,500	00	575,889	00	5.16	4.13	5.13
February 28, 1871,	16	9,000,000	00	2,297,158	00	463,500	00	561,177	00	5.15	4.10	4.97
August 31, 1871,	16	9,000,000	00	2,415,177	00	482,000	00	552,755	00	5.36	4.22	4.84
February 28, 1872,	16	9,000,000	00	2,481,622	00	487,000	00	557,482	00	5.41	4.24	4.86
August 31, 1872,	16	9,000,000	00	2,570,277	00	479,000	00	576,970	00	5.32	4.14	4.99
March 1, 1873,	16	9,000,000	00	2,595,443	00	498,000	00	512,236	00	5.53	4.30	4.42
September 1, 1873,	16	9,000,000	00	2,950,741	00	503,000	00	658,449	00	5.59	4.21	5.51
March 1, 1874,	16	9,000,000	00	2,983,604	00	459,000	00	524,024	00	5.10	3.83	4.37
September 1, 1874,	16	9,000,000	00	3,055,928	00	489,000	00	605,004	00	5.43	4.06	5.02
March 1, 1875,	16	9,000,000	00	3,093,585	00	471,000	00	530,426	00	5.23	3.89	4.39
September 1, 1875,	19	9,710,000	00	2,898,238	00	466,750	00	540,669	00	4.81	3.70	4.29
March 1, 1876,	23	10,530,000	00	2,936,881	00	462,000	00	532,046	00	4.39	3.43	3.95
September 1, 1876,	23	10,510,000	00	3,034,992	00	445,000	00	462,363	00	4.23	3.28	3.41
March 1, 1877,	22	10,350,000	00	3,047,091	00	418,000	00	408,936	00	4.04	3.12	3.05
September 1, 1877,	22	10,350,000	00	3,062,153	74	415,000	00	428,256	00	4.01	3.09	3.19

REVENUE OF THE COMMONWEALTH OF PENNSYLVANIA.

SUMMARY OF RECEIPTS, *at the State Treasury, from the 1st day of December, 1876, to the 30th day of November, 1877, both days inclusive.*

1. Lands,	$3,934	42
2. Tax on corporation stock,	2,086,309	14
3. Tax on coal companies,	482,845	01
4. Tax on personal property,	409,394	78
5. Tax on bank stock,	394,277	89
6. Tax on net earnings or income,	45,625	61
7. Tax on loans,	166,131	02
8. Tax on gross receipts,	74,405	25
9. Tax on gross premiums,	9,631	06
10. Tax on tonnage,	1,529	89
11. Tax on logs,	800	00
12. Tax on writs, wills, deeds, &c.,	129,102	64
13. Tax on certain offices,	2,638	98
14. Notary public commissions,	7,900	00
15. Bonus on charters,	25,154	67
16. Foreign insurance companies,	500,887	17
17. Commutation of tonnage tax,	460,000	00
18. Collateral inheritance tax,	378,028	70
19. Allegheny Valley Railroad Company, interest on bonds,	112,500	00
20. Allegheny Valley Railroad Company, bond redeemed	100,000	00
21. Annuity for right of way,	10,000	00
22. Accrued interest,	21,336	16
23. Fees of the public officers,	26,384	39
24. Geological survey,	265	10
25. Escheats,	3,321	57
26. Pennsylvania archives,	133	55
27. Retailers' licenses,	396,224	81
28. Tavern licenses,	381,130	69
29. Theater, circus, &c., licenses,	2,890	83
30. Billiard-room, &c., licenses,	11,080	95
31. Eating-house, &c., licenses,	33,469	98
32. Distillers' and brewers' licenses,	11,309	33
33. Peddlers' licenses,	3,812	81
34. Brokers' licenses,	12,421	95
35. Patent medicine licenses,	6,474	75
36. Millers' licenses,	758	50
37. Pamphlet laws,	717	27
38. Auctioneers' licenses,	14,082	94
39. Fines and forfeitures,	38	45
40. Unclaimed deposits,	286	52
41. Sale of public property,	880	50
42. Refunded cash,	1,810	98
43. New five per cent. loan,	8,271,083	77
44. United States Government,	58,490	41
	$14,659,502	44

EXPENDITURES OF THE COMMONWEALTH OF PENNSYLVANIA.

SUMMARY OF PAYMENTS, *at the State Treasury, from the 1st day of December, 1876, to the 30th day of November, 1877, both days inclusive.*

1. Expenses of government,	$1,213,276	31
2. Commissioners of the Sinking Fund,	8,159,957	76
3. Interest on loans,	1,318,714	13
4. Common schools,	902,769	83
5. Soldiers' orphans' schools,	372,084	46
6. Charitable institutions,	722,597	33
7. Pensions and gratuities,	45,213	00
8. Militia expenses,	32,278	03
9. Riots in the anthracite coal regions,	2,355	25
10. Riots,	77,171	79
11. State Library,	8,200	00
12. Board of Pardons,	3,872	43
13. Centennial exposition,	213,484	10
14. Pennsylvania board of centennial managers,	4,886	78
15. Advertising for proposals,	14,559	08
16. Stationery, fuel, &c.,	33,612	84
17. Pennsylvania Agricultural Society,	5,456	18
18. Public buildings and grounds,	15,313	22
19. Seat of government,	18,215	02
20. Houses of refuge,	43,500	00
21. Penitentiaries,	98,473	75
22. Geological survey,	57,000	00
23. Board of public charities,	6,300	00
24. Mechanics' high school of Pennsylvania,	479	20
25. Harbor master, Philadelphia,	5,291	65
26. Port warden, Philadelphia,	2,916	62
27. Inspectors of coal mines,	27,793	57
28. Centennial military encampment,	3,943	36
29. Pennsylvania Archives,	6,000	00
30. Municipal commission of Pennsylvania,	9,900	00
31. Damages and old claims,	2,350	00
32. Assessors of bank stock,	15,362	87
33. Mercantile appraisers,	2,563	56
34. Special commissions,	17,015	45
35. Escheats—payments,	2,318	94
36. Counsel fees and commissions,	200	00
37. United States Government—payments,	849	04
38. Miscellaneous,	16,177	64
	$13,482,453	19

RECAPITULATION OF MONTHLY RECEIPTS AND EXPENDITURES.

Receipts.

December, 1876,	$372,038	29
January, 1877,	915,973	86
February, 1877,	575,188	01
March, 1877,	397,202	71
April, 1877,	625,441	23
May, 1877,	8,411,875	05
June, 1877,	361,482	60
July, 1877,	717,131	44
August, 1877,	969,265	32
September, 1877,	248,721	89
October, 1877,	429,514	25
November, 1877,	635,667	79
	$14,659,502	44

Expenditures.

December, 1876,	$384,623	56
January, 1877,	756,102	26
February, 1877,	255,644	96
March, 1877,	629,439	75
April, 1877,	363,032	64
May, 1877,	712,892	87
June, 1877,	368,018	03
July, 1871,	944,396	67
August, 1877,	7,139,138	22
September, 1877,	900,338	72
October, 1877,	748,338	86
November, 1877,	280,486	65
	$13,482,453	19

PUBLIC DEBT.

Statement showing the indebtedness of the Commonwealth of Pennsylvania on the 1st day of December, 1877.

Funded debt, viz:			
6 per cent. loans, ...	$12,597,730 00		
5 per cent. loans, ...	9,645,201 58		
4½ per cent. loans, ...	87,000 00		
6 per cent. Agricultural Land Scrip bonds, ...	500,000 00		
		$22,829,931	58
Unfunded debt, viz:			
Relief notes in circulation, . .	$96,174 00		
Interest certificates outstanding,	13,038 54		
Interest certificates unclaimed,	4,448 38		
Domestic creditors' certificates,	25 00		
Chambersburg certificates, outstanding, ...	52 21		
Chambersburg certificates, unclaimed, ...	144 60		
		113,882	73
Public debt, December 1, 1877, ...		$22,943,814	31
Public debt as it stood December 1, 1876, ...		$22,978,950	69
Clerical error in ledger, ...		60	00
New 5 per cent. loan, ...		8,000,000	00
		$30,979,010	69
Amount of debt redeemed at the State Treasury during the fiscal year ending November 30, 1877, viz:			
6 per cent. loans, ...	$4,869,150 00		
5 per cent. loans, ...	3,166,000 00		
Chambersburg certificates, act May 27, 1871, ...	38 38		
Relief notes, ...	8 00		
		8,035,196	38
Public debt, December 1, 1877, ...		$22,943,814	31

INSURANCE.

During the year 1876, the citizens of Pennsylvania paid in premiums for fire, marine, life, and accident insurance, a sum of money aggregating $14,892,900 71, as shown by the following summary, taken from the report of Mr. J. M. Forster, Insurance Commissioner of the State of Pennsylvania:

Premium receipts from Pennsylvania Life companies from business in the State,		$1,707,455	38
Premium receipts of Life companies of other States from business in Pennsylvania,		4,893,765	31
Total premium receipts of Life companies in Pennsylvania,		$6,601,220	69
Premium receipts of Pennsylvania Stock, Fire, and Marine companies in the State,	$3,345,352 51		
Receipts of Pennsylvania Mutual companies from policies and assessments in the State,	1,305,683 60		
Total receipts of Pennsylvania Fire companies in the State,		4,651,036	11
Premium receipts of foreign Fire and Marine companies,		3,640,643	91
Total paid for insurance in Pennsylvania for 1876,		$14,892,900	71
Total paid in 1875,		$15,802,164	55
Total paid in 1876,		14,892,900	71
Decrease in 1876,		$909,263	84

The decrease is in life premiums, $576,468 53, and in fire and marine premiums, $332,795 31.

BUSINESS IN PENNSYLVANIA.

The business of insurance during the year 1876, in the State of Pennsylvania, is summed up as follows:

Premiums received by stock companies,	$6,985,996	42
Premiums and assessments by mutual companies,	1,305,683	60
Total Pennsylvania business,	$8,291,680	02
Losses paid by stock companies,	$3,844,651	76
Losses paid by mutual companies,	898,463	90
Total losses paid in Pennsylvania,	$4,743,115	66

This shows a decrease of $332,795 31 in premiums, and a decrease of $281,927 59 in losses, in the entire business of this State during the year 1876, as compared with the business of 1875. Ratio of losses paid to income from premiums and assessments on entire Pennsylvania business, 57.20 per cent.

Premiums received by Pennsylvania Life companies,	$1,707,455	38
Premiums received by Life companies of other States,	4,893,765	31
Total of Pennsylvania business,	$6,601,220	69
Losses paid by Pennsylvania Life companies,	$575,482	00
Losses paid by Life companies of other States,	2,181,709	00
Total losses paid in Pennsylvania,	$2,757,191	00

Business of Pennsylvania Companies.

The business of Pennsylvania joint stock insurance companies for the year 1876, is represented by the following figures:

Income from fire premiums,			$6,768,919	50
Income from marine and inland premiums,			2,494,179	92
Total premium income,			$9,263,099	42
Paid for fire losses,	$3,393,429	08		
Paid for marine and inland losses,	1,767,489	95		
Paid for commissions,	1,163,099	20		
Paid for salaries,	796,660	48		
Paid for taxes,	271,373	62		
Paid for miscellaneous,	695,227	89		
			8,087,280	22
Excess of premium income over expenses,			$1,175,819	20
Income from investments,	$1,569,201	87		
Income from rents,	38,074	27		
Income from miscellaneous sources,	90,948	65		
			1,698,224	79
Total net income,			$2,874,043	99
Deduct dividends,			1,510,204	51
Excess of income over all expenditures,			$1,363,839	48
Ratio of losses paid to premium income,			$55	71
Ratio of expenses to premium income,			31	59
Ratio of profit to premium income,			12	70

Mutual Fire Insurance Companies.

The business of the mutual insurance companies, for the year 1876, shows the following cash results:

Receipts from policies,	$1,080,952	06
Receipts from assessments,	683,121	23
Receipts from miscellaneous sources,	324,646	08
Total cash receipts,	$2,088,719	37
Paid for losses,	$1,265,027	05
Cash returned to members,	72,035	66
Paid for salaries and expenses,	555,773	33
Total cash disbursements,	$1,892,836	04

Pennsylvania Life Insurance Companies.

The following statement shows the income and expenditures of life insurance companies of this State, for the year ending December 31, 1876:

Income.		
Premiums, less amount paid for re-insurance,	$2,801,407	93
Interest, discount, and rent,	887,676	49
All other sources,	87,579	20
Total income,	$3,776,663	62
Expenditures.		
To policy holders: Losses and matured endowments,	$1,025,676	79
Dividends and other expenditures,	973,630	95
Total payments to policy holders,	$1,999,307	74
Dividends to stockholders,	69,732	00
Expenses of management,	585,890	31
Total expenditures,	$2,654,930	05
Total excess of income over expenditures,	$1,121,733	57

Co-operative Life Insurance Companies.

Cash assets,	$400,167 87
Cash liabilities,	164,603 23
Cash income,	558,423 39
Cash expenditures,	487,282 86
Number of classes,	29
Number of members at beginning of year,	18,104
Number of members at close of year,	20,112
Number of members died during year,	237
Amount paid for death claims,	$368,765 94
Number of policies forfeited,	2,491
Amount of money forfeited to company,	$8,107 81
Number of coöperative companies in the State,	14

BUSINESS OF 1876.

Summary of risks written, premiums and assessments received, and losses paid by fire, and inland, and marine insurance companies lawfully doing business in Pennsylvania, during the year 1876.

	RISKS WRITTEN.		Premiums received.		Losses paid.		Ratio of losses paid to premiums received.
	Fire.	Marine and Inland.					
Pennsylvania joint-stock companies,	$628,100,734	$249,335,312	$9,263,099	42	$5,160,919	03	55.71
Companies from other States,	3,839,423,164	370,985,248	39,774,299	42	21,069,408	02	52.96
Foreign companies—United States branches,	1,149,421,390	14,033,088	10,349,321	46	4,933,219	32	47.67
Total,	$5,616,945,288	$634,353,648	$59,386,720	30	$31,163,546	37	52.48

	Fire risks written.	RECEIPTS.				Losses paid.		Ratio of losses paid to premiums and assessments received.
		From assessments.		From policies.				
Pennsylvania mutual companies,	$131,460,291	$683,121	23	$1,080,952	06	$1,265,027	05	71.71

Risks in Force December 31, 1876.

Pennsylvania joint-stock fire companies, .	$882,578,696	
Pennsylvania mutual fire companies, . . .	534,191,616	
Other State joint-stock fire companies, . .	3,663,281,476	
American branches foreign fire companies,	874,630,838	
Total, ...		$5,954,682,626

Pennsylvania joint-stock inland and marine companies, ...	$26,070,735	
Other State joint-stock inland and marine companies, ...	39,843,342	
American branches foreign marine and inland companies, ...	523,255	
Total, ...		$66,437,332

SUMMARY

Of total business done in 1876, by Pennsylvania Life Insurance Companies, Life Insurance Companies of other States, and Accident Companies.

	POLICIES IN FORCE DECEMBER 31, 1876.		POLICIES ISSUED DURING THE YEAR.		Premiums received during the year.		Losses incurred during the year.
	No.	Amount.	No.	Amount.			
Pennsylvania companies, ...	16,102	$45,626,975	2,117	$6,618,300	$1,707,455	38	$580,674
Companies of other States, ...	57,794	156,445,220	8,480	19,567,878	4,747,304	05	2,244,842
Accident companies, ...	3,330	9,017,376	3,713	10,364,800	80,040	02	27,441
Total, ...	77,226	$211,089,571	14,310	$36,550,978	$6,534,799	45	$2,852,957

CONDITION OF INSURANCE COMPANIES DOING BUSINESS IN PENNSYLVANIA.

JOINT-STOCK AND MUTUAL FIRE AND FIRE MARINE COMPANIES.

	Assets.		LIABILITIES.								Income.		Expenditures.	
			Liabilities, except paid up capital and net surplus.		Paid up capital.		Net surplus.		Total liabilities.					
Pennsylvania Joint-stock Fire and Fire Marine Companies,	$31,752,766	30	$12,690,274	23	$11,109,277	74	$8,026,666	19	$31,826,218	16	$10,961,324	21	$9,597,784	73
Pennsylvania Mutual Fire Companies, ...	5,638,013	79	1,820,313	10	. . . .	. .	. . . .	. .	1,820,313	10	2,088,719	37	1,892,836	04
Other State Joint-stock Fire and Fire Marine Companies, . .	94,966,232	12	28,015,290	80	45,103,360	00	21,915,079	69	95,033,730	49	44,759,261	82	40,983,796	02
American branches Foreign Fire and Fire Marine Cos., . . .	17,350,508	37	7,289,449	19	. . . .	. .	. . . .	. .	7,289,449	19	10,935,863	01	8,183,433	24
Totals, ...	$149,707,520	58	$49,815,327	32	$56,212,637	74	$29,941,745	88	$135,969,710	94	$68,745,168	41	$60,657,550	03

LIFE AND ACCIDENT INSURANCE COMPANIES.

	Total admitted assets.		Liabilities, except surplus.		Surplus, as regards policy holders.		Cash capital.		Income.		Expenditures.	
Pennsylvania Life Insurance Companies, ...	$17,685,358	99	$13,529,764	99	$4,155,594	00	$1,745,721	50	$3,776,663	62	$2,654,930	05
Life Insurance Companies of other States, ...	397,994,867	45	337,601,495	05	60,393,372	40	4,541,500	00	94,384,039	21	75,389,000	25
Accident Companies, ...	1,616,089	27	309,988	52	1,306,100	75	900,000	00	886,583	67	865,559	32
Totals, ...	$417,296,315	71	$351,441,248	56	$65,855,067	15	$7,187,271	50	$99,047,286	50	$78,972,932	79

BITUMINOUS COAL STATISTICS.

ALLEGHENY COUNTY.

Oak Hill No. 1, Mines.

Dickson, Stewart & Co.

Post office: Pittsburgh, county of Allegheny.

Mine located in Allegheny county.

Quantity of tons, and value in dollars, of annual product, 40,126 tons, valued at $60,189, in Pittsburgh.

Whole number of persons employed, 83 on an average, and 5 at above and other mines.

Amount of capital employed in business, $40,500.

Amount paid annually for wages of employés, $30,220 38.

Amount paid for materials used in business, about $4,550; and freight paid, $12,840 32.

In the classification made below, the number of each class employed, with the daily wages paid each class, and the time worked during the year:

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	52	. .	Ab't 75c. ⅌ ton.		Unknown.	About 264.	
Outside laborers, . .	20	3	$2 75 to $1 25	$1 00 to 50c.			
Outside mechanics, .	2	. .	1 75				
Inside mechanics, .	1	. .	2 25				
Inside mule drivers,	5	. .	1 75				
Weigh-master, . . .	1	. .	2 25				
Dumpers, ...	1	. .	1 25				
Mining overseers, .	1	. .	2 25				
Civil engineers, . .	1	. .					
Brakemen, ...	1	. .	3 00				

CHARACTERISTICS OF COLLIERY.—The Oak Hill Mines No. 1 coal is celebrated for its superiority as a gas coal, and has and is being extensively used for that purpose throughout the West. It is the coal known as the Youghiogheny, and is a soft bituminous coal.

The mines are located about twelve miles east of Pittsburgh, on the Pennsylvania railroad.

DICKSON, STEWART & CO.

Willow Grove Mines.

Dickson, Stewart & Co., Pittsburgh, Allegheny county.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product: 32,012 tons; valued at $48,018, at Pittsburgh.

Whole number of persons employed, 55.

Amount of capital employed in business, $83,000.

Amount paid annually for wages of employés, $19,640 34.

Amount paid for materials used in business, about $4,500; freight paid, $11,204 20.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on wages, . .	42	. . .	Ab't 75 c. p. ton.		Unknown.	About 270 days.	
Outside laborers, . .	3	. . .	$1 25 to $2 00				
Inside laborers, . . .	2	. . .	1 75				
Outside mechanics, .	1	. . .	1 75				
Inside mechanics, . .	1	. . .	2 00				
Outside mule drivers,	. . .	1	1 00				
Inside mule drivers,	2	. . .	1 60 to 1 75				
Weigh-master, . . .	1	. . .	2 25				
Mining overseers, . Civil engineers, . .	1	. . .	3 00				
Brakeman, ...	1	. . .	2 50				

Characteristics of Colliery.—Willow Grove Mines are situated on the Pittsburgh, Cincinnati and St. Louis railroad, about 16 miles west of Pittsburgh, and the coal is noted for gas, steam, and fuel purposes, and is a somewhat harder coal than that on the Pennsylvania railroad, and is mined in better shape for shipment for any distance, the principal market being west.

DICKSON, STEWART & CO.

Swissvale Mines.

Dickson, Stewart & Co., 567 Liberty street, Pittsburgh, Pa.

Quantity of tons and value in dollars of annual product: 9,660 tons—$14, 490.

Whole number of persons employed, 31.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Time in operation during year.	REMARKS.
Miners on wages, ...	21	. . .	Ab't 75 c. p. ton.		About half time for 8 months.	
Outside laborers, ...	1	1	$1 20	$1 00		
Inside laborers, ...	1	. . .	1 50			
Outside mechanics, . . . Inside mechanics, ...	1	. . .	2 00			
Outside mule drivers, . . .	. . .	1	. . . .	1 20		
Inside mule drivers, . . .	2	. . .	1 60			
Weigh-master, ...	1	. . .	1 75			
Mining overseers, ... Civil engineers, ...	1	. . .	3 00			
Brakeman, ...	1	. . .	1 75			

CHARACTERISTICS OF COLLIERY.—These mines about worked out, and are situated in Allegheny county, about nine miles east of Pittsburgh, on the Pennsylvania railroad.

DICKSON, STEWART & CO.

Duquesne Coal Mines.

Duquesne Coal Company, Pittsburgh, Allegheny county, Pa.

Mine located in Wilkins township, Allegheny county.

Quantity of tons and value in dollars of annual product: 17,550 gross tons; $39,064 90.

Whole number of persons employed, 109 men.

Amount of capital employed in business, $200,000.

Amount paid annually for wages of employés, $20,899 01.

Amount paid for materials used in business, $568 99.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	84	. . .	$1 52½	. . .	. . .	103	
Outside laborers, . .	7	. . .	1 50	. . .			
Inside laborers, . . .	2	. . .	2 00	. . .			
Inside mule drivers,	8	. . .	2 00	. . .			
Weigh-master, . . .	1	. . .	1 25	. . .			
Mining overseers, . .	1	. . .	2 25	. . .			
Civil engineers, and superintendent, .	1	. . .	3 00	. . .			
Engineers, ...	2	. . .	2 25	. . .			

CHARACTERISTICS OF COLLIERY.—The Screen bill has completely demoralized the coal trade here; strikes have become more frequent, in consequence of which the trade with the west and northwest, and across the lakes, which was principally supplied from this section of the country, has been driven away, and Ohio and Indiana coal taken its place.

The State tax on coal is also making its effects materially felt, and the ventilation bill will doubtless put the finishing touch on whatever little trade the several collieries may still have.

Coal is now sold at nominal figures at no margin of profit, and there is no inducement whatever for operators to prosecute their business. Every operator, or corporation, would gladly sell their works and coal property could they but realize their original investment. The business has been gloomy and profitless for the last three years, and the prospects for the future are by no means bright.

J. J. STEYTLER,
Manager.

Ætna and Vesuvius Coal Company.

Lewis, Dazall & Co., and Spang, Chalfant & Co., 68 Anderson street, Allegheny City, Allegheny county, Pa.

Mine located in Hite's Station, Allegheny county.

Quantity of tons and value in dollars of annual product: 20,000 tons; $30,000.

Whole number of persons employed, 60.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, $19,684 05.

Amount paid for materials used in business, $1,286 71.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, ...	39	2	$1 52	$0 50	7	248	
Outside laborers, brakemen,	2	. . .	1 70	. . .	. . .	240	
Inside laborers, ...	2	. . .	1 50	. . .	. . .	175	
Outside mechanics, ...	2	. . .	2 00	. . .	. . .	275	
Inside mechanics, ...	1	. . .	2 00	. .	. . .	307	
Outside mule drivers, ...	1	. . .	1 65	. .	. . .	253	
Inside mule drivers, ...	4	. . .	1 65	. . .	. . .	256	
Weigh-master, ...	1	. . .	1 25	. . .	. . .	253	
Dumpers, ...	5	. . .	1 25	. . .	. . .	253	
Slate-pickers, ...	1	. . .	1 25	. . .	. . .	253	
Mining overseers, ...	1	. . .	4 00	. . .	. . .	2	
Civil engineers, ...	1	. . .	10 00	. . .	. . .	2	

ÆTNA AND VESUVIUS COAL CO.,
Per G. S. LEWIS.

Rock Run Works.

Culp & Gamble.

Post office: Coal Valley, county of Allegheny.

Mine located in Allegheny county.

Quantity in tons and value in dollars of annual product, 33,000 tons; $40,000.

Whole number of persons employed, about 100.

Amount of capital employed in business, $30,000.

Amount paid annually for wages of employés, $28,000.

Amount paid for materials used in business, $4,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	80	. .	$3 00	. . . .	. . . .	150	
Outside laborers,	6	. .	2 25	. . . .	9 to 10		
Inside laborers,	1						
Inside mechanics,	1	. .	2 25				
Inside mule drivers,	6	. .	2 25				
Weigh-master,	1	. .	2 50				
Dumpers,	1	. .	2 25				
Mining overseers,	. . .	. .	2 25	. . . .	. . . .	. . .	Same as mechanics.
Civil engineers,	. . .	. .	. . . .	. . . .	. . . .	. . .	Ourselves.

CHARACTERISTICS OF COLLIERY.—Our mine is located on the Monongahela river, fifteen miles above Pittsburgh, on the west side of the river. The mine is situated at an elevation of about 260 feet above the river, in a bluff hill.

J. H. GAMBLE.

Streets Run Coal Works.

J. D. Risher, Hope Church, Allegheny county.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 31,752; value, about $45,000.

Whole number of persons employed, 120—sometimes more, sometimes less.

Amount of capital employed in business, $12,000.

Amount paid annually for wages of employés, $31,395 85.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	100	. .	$2 00	. . .	12	125	Daily wages are whatever they earn; $2 is an average. Men stay in the mine as long as they please, usually about 12 hours.
Outside laborers, . .	13	3	2 00	1 00	12	125	
Inside laborers, . .	2	. .	2 50	. . .	12	135	
Outside mechanics, .	1	. .	3 00	. . .	12	275	
Inside mule drivers,	4	3	1 75	1 75	12	125	Inside drivers haul to the top of plane, outside of mine.
Weigh-master, . . .	1	. .	3 00	. . .	12	300	
Dumpers, ...	2	. .	2 25	. . .	12	125	
Mining overseers, .	1	. .	3 25	. . .	12	300	
Civil engineers, . .	. . .	. .	. . .	. . .	. . .	. . .	None permanently employed; engage one from time to time, as required.

J. D. RISHER.

Joseph Walton & Co.

Joseph Walton & Co., Pittsburgh, Allegheny county.

Mines all located in Allegheny county.

Quantity of tons and value in dollars of annual product, 180,000 tons; value at mines, $262,000.

Whole number of persons employed, 472.

Amount of capital employed in business, $900,000.

Amount paid annually for wages of employés, $120,000.

Amount paid for materials used in business, $60,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	380	. . .	3 cts. per bus.	. . .	10	About two thirds time.	
Outside laborers, . .	16	. . .	$2 25				
Outside mechanics, .	3	. . .	3 00				
Inside mechanics, .	1	. . .	3 00				
Inside mule drivers,	55	. . .	2 50				
Weigh-masters, . .	3	. . .	2 50				
Dumpers, ...	9	. . .	2 25				
Mining overseers, .	5	. . .	3 00				

Characteristics of Colliery.—Our business is exclusively a mining and shipping business, the shipping being done by water south; and the large amount of capital engaged in the business is invested, besides the collieries, in floating stock, such as steam tow-boats, barges, coal boats, and flats.

Milesville.

Robbins, Lynn & Co., Sunny Side, Allegheny county.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 15,618 tons—$14,000.

Whole number of persons employed, 40.

Amount of capital employed in business, $50,000.

Amount paid annually for wages of employés, $12,000.

Amount paid for materials used in business, $900.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	3	. . .	Average $2 37 per day.	. . . .	8	123 days.	
Miners on wages, . .	30	. . .		. . . .	8		
Outside laborers, . .	2	. . .		. . . .	10		
Outside mule drivers,	1	. . .		. . . .	9		
Inside mule drivers,	2	. . .		. . . .	9		
Weigh-master, . . .	1	. . .		. . . .	10		
Mining overseers, .	1	. . .		. . . .	10		

ROBBINS, LYNN & CO.,
By T. Woods, *Agent.*

Venture, Coal Ridge, and Chess Mines.

Messrs. Gray & Bell, Thirty-sixth ward, Pittsburgh, Allegheny county.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 127,660 tons, amounting to $164,952 17.

Whole number of persons employed, 324 men and boys.

Amount of capital employed in business: Cannot give the amount.

Amount paid annually for wages of employés, $125,842 87.

Amount paid for materials used in business: Cannot give the amount paid for materials, no account being kept.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	240	. . .	$1 68⅘	. . . .	. . . .	210⅖	
Outside laborers, . .	25	2	1 85⅓	$0 92¾	10	*210⅖	
Inside laborers, . . .	11	6	1 85½	80¼	10	†185½	
Outside mechanics, .	12	. . .	1 99⅒	. . . .	10	224½	
Inside mechanics, .	8	. . .	2 08¾	. . . .	10	190	
Inside mule drivers,	. . .	18	. . . .	1 87½	. . . .	200	
Weigh-master, . . .	3	. . .	2 10	. . . .	10	212	
Dumpers, ...	13	. . .	1 84	. . . .	10	180	
Mining overseers, .	3	1	2 91⅓	. . . .	. . . .	269	
Civil engineers, . .	1	. . .	3 33⅓	. . . .	. . . .	300	
Outside foreman, . .	1	. . .	3 00	. . . .	. . . .	313	

* Boys, 161 days. † Men, 224 days.

GEORGE GRAY,
For GRAY & BELL.

Oak Ridge Mine.

Oak Ridge Coal Company, limited, Pittsburgh, Allegheny county.

Mine located in Allegheny county.

Quantity of tons, and value in dollars of annual product, tons, 37,778; $56,211 80.

Whole number of persons employed, 82.

Amount of capital employed in business, $50,000.

Amount paid annually for wages of employés, $29,934 90.

Amount paid for materials used in business, $2,579 86.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	70	. . .	$1 90	. . .	10	260	
Outside laborers, . .	2	. . .	1 30	. . .	10		
Outside mechanics, .	1	. . .	1 50	. . .	. . .	64	
Inside mule drivers,	4	. . .	1 60	. . .	. . .	260	
Weigh-master, . . .	1	. . .	1 75				
Mining overseer, . .	1	. . .	3 00	. . .	. . .	All the year.	
Roadman, ...	1	. . .	1 60	. . .	. . .	260	
Checkman, ...	1	. . .	1 60	. . .	. . .	260	
Brakeman, ...	1	. . .	2 00	. . .	. . .	300	

GEORGE W. SCHLUEDERBERG,
Secretary and Treasurer.

New Eagle Coal Works.

Lindsay, McCutcheon & Gruss, Pittsburgh, Allegheny county.

Mine located in Washington county.

Quantity of tons, and value in dollars of annual product, 389,000 bushels; $21,285.

Whole number of persons employed, 70.

Amount of capital employed in business, $8,300.

Amount paid annually for wages of employés, $13,700.

Amount paid for materials used in business, $6,900, and towage and lockage.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	60	. .	2 to 3 cts. bushel.	. . .	6 to 8	8 mos.	Contract with one man, sixty cents per one hundred bushels clean coal, for all labor except mining.

REMARKS.—We consume most of our own coal in the rolling-mill belonging to *Lindsay & McCutcheon.*

LINDSAY, McCUTCHEON & GRUSS.

Belleview Coal Works.

P. Y. Hite, Tarantum, Allegheny county.
Mine located in Allegheny county.
Quantity of tons, and value in dollars of annual product, 40,000 ; $40,000.
Whole number of persons employed, 50.
Amount of capital employed in business, unknown.
Amount paid annually for wages of employés, $25,000.
Amount paid for materials used in business, $2,500.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	35	. . .	$2 00	. . .	8	$2 50	
Miners on wages, . .	. . .	3	. . .	$0 50			
Outside laborers, . .	2	. . .	1 10				
Inside laborers, . . .	2	. . .	1 50				
Outside mechanics, .	2	. . .	1 75				
Outside mule drivers,	2	. . .	1 65				
Inside mule drivers,	4	. . .	1 65				
Weigh-master, . . .	1	. . .	2 00				
Dumpers, ...	1	. . .	1 50				
Mining overseers, . .	1	. . .	2 00				

P. Y. HITE,
Per R. W. ROW.

Robbins & Jenkins.

Robert Jenkins and W. N. Robbins, McKeesport, Allegheny county.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 1,017,216 bushels.

Whole number of persons employed, 168.

Amount of capital employed in business, $60,000.

Amount paid annually for wages of employés, $49,265 24.

Amount paid for materials used in business, $8,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	140						
Outside laborers, . .	10	. . .	$2 25	. . .	10		
Inside laborers, . .	2	. . .	2 25	. . .	10		
Outside mule drivers,	4	. . .	2 00	. . .	10		
Inside mule drivers,	6	. . .	2 25	. . .	10		
Weigh-master, . . .	1	. . .	2 50	. . .	10		
Dumpers, ...	2	. . .	2 25	. . .	10		
Mining overseers, . .	2						
Civil engineers, . . .	1						

ROBBINS & JENKINS.

Kenny.

A. H. Kenny & Co., Braddock, Allegheny county.

Mine located in First Pool, Monongahela, Allegheny county, Pa.

Quantity of tons and value in dollars of annual product: Total value of product, $8,975 66.

Whole number of persons employed, 40.

Amount of capital employed in business, $5,000.

Amount paid annually for wages of employés, $400.

Amount paid for materials used in business, $2,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	35	2	$1 50	$0 77½	10	120	
Outside laborers, . .	7						
Inside laborers, . . .	35	. . .	. . .	70	10		
Inside mule drivers,	4						
Weigh-master, . . .	1						
Dumpers, ...	1						
Mining overseers, . .	1						

REMARKS.—Our works are now almost worked out, and will be finally abandoned in the course of another year. Business very dull and unprofitable. Cause, overproduction, with stringency of money matters.

Respectfully,

A. H. KENNY & CO.

Horner & Roberts.

Simpson Horner, George W. Roberts & S. S. Roberts, Elizabeth, Allegheny county,

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 1,617,746 bushels. (We work by bushels.)

Whole number of persons employed, from 100 to 300 men.

Amount of capital employed in business, about $200,000.

Amount paid annually for wages of employés, about $64,700.

Amount paid for materials used in business, about $3,700.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	20	...	From $2 to $3	...	8	224	
Miners on wages,	240	...	...	...	8	224	
Outside laborers,	40	...	1 50 to 2 50	...	10	224	
Inside laborers,	2	...	2 00	...	..	224	
Outside mechanics,	1	...	3 00	...	...	224	
Inside mechanics,	1	...	2 50	...	...	224	
Outside mule drivers,	...	...	...	...	...	...	Use locomotive.
Inside mule drivers,	15	...	1 25 to 2 75	...	10	224	
Weighmaster,	1	...	2 25	...	10	224	
Dumpers,	2	...	1 75	...	10	224	
Mining overseers,	2	...	Yearly,	...	...	...	All the year.
Civil engineers,	...	...	...	...	...	...	Ourselves.
Engineer,	1	...	...	...	...	365	In mines pumping water.
Engineer,	1	...	...	...	...	365	Running locomotive.

REMARKS.—We run our works about 224 days, but of course there are more or less men out of the mines every day, for various causes.

Trade on the Monongahela valley is dull. Coal is selling at cost in lower markets, not saying anything about interest on capital.

Our idea of the depression in our trade, is this: Production too great for the demand. Our facilities in the valley were very much augmented during the war, for running coal to supply the lower markets, but since that time they do not need as much coal.

HORNER & ROBERTS.

Youghiogheny Coal Works.

James O'Neil, Boston, Allegheny county.

Mine located in Allegheny county.

Quantity of tons, and value in dollars of annual product, 1,300,000 bushels; $50,000.

Whole number of persons employed, 119.

Amount of capital employed in business, $240,000.

Amount paid annually for wages of employés, $35,000.

Amount paid for materials used in business. Could not give amount, as we used old timber, and made a great many repairs.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	100	. .	3, 2½, and 2 cts. pr. bushel.	. . .	10	179	
Outside laborers, . .	3	. .	$1 75, and for outside work and drivers.				
Outside mechanic, .	1	. .	1 50				
Inside mule drivers,	8						
Weighmaster, ...	1						
Dumpers, ...	1						
Pusher up, ...	1						
Mining overseers, . .	1	. .	. . . .	$3 00			
Blacksmith, ...	1						
Locomotive engineer,	1	. .	. . . .	2 25			
Brakeman, ...	1						

REMARKS.—The past year has been, like the year of 1875, exceedingly dull; the price obtained in the southern market not being enough to pay expenses. The cost on mining and handling is $35,000; sales, $50,000, leaving but $15,000 to pay first cost, and keep up repairs. Last year I extended my works so as to employ more men; at this time I have mined two thirds as much as the entire year before. I have now about two miles of 40 ℔ T iron track, locomotives, and stock sufficient to handle three time as much coal as in the last year. The price of mining at present is three cents per bushel; I think it will not get less than that this year.

Yours, respectfully,

JAMES O'NEIL,

Per J. A. O'NEIL.

Alliquippa Coal Works.

Whigham, Bailey & Co., Dravosburg, Allegheny county.

Mine located in Mifflin township, Allegheny county.

Quantity of tons and value in dollars of annual product, 20,000 tons; $20,000.

Whole number of persons employed, 75.

Amount of capital employed in business, $15,000.

Amount paid annually for wages of employés, $20,000.

Amount paid for materials used in business, $1,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	60	. . .	. . .	. . .	10	100	
Outside laborers, . .	11	. . .	$2 00	. . .	10	100	
Inside laborers, . .	2	. . .	2 25	. . .	10	100	
Inside mule drivers,	5	. . .	2 00	. . .	10	100	
Weigh-master, . . .	1	. . .	2 50	. . .	10	100	
Mining overseers, .	1	. . .	3 00	. . .	10	100	

WHIGHAM, BAILEY & CO.

Huntsman, Miller & Co.

Huntsman, Miller & Co., Allegheny, Allegheny county, Pa.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 19,570 tons; value or cost, $20,420.

Whole number of persons employed, 48.

Amount of capital employed in business, $79,000; improvements, $25,000; coal lands, $44,000.

Amount paid annually for wages of employés, $11,933 24.

Amount paid for materials used in business, $4,500.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	37	. . .	$1 50	. . .	No number of hours exacted.	150	Average for 1876.
Outside laborers, . .	3	. . .	1 25	. . .		. . .	Average for 1876.
Inside laborers, . .	1	. . .	1 50	. . .		112	
Outside mechanics, .	2	. . .	1 75	. . .		200	
Outside mule drivers,	. . .	1	. . .	$1 25		150	
Inside mule drivers,	2	. . .	1 60	. . .		150	
Weigh-master, . . .	1	. . .	2 25	. . .		300	
Mining overseers, .	1	. . .	2 75	. . .		300	

REMARKS.—In month of January, 1876, no work, on account of strike of miners, and the greater part of February lost, from same cause.

In month of June, very little work done, from want of trade.

The average number of days worked per miner will not exceed 250 days per annum, as there is but a very small number who make full time, and a very large number not more than half time.

Trade the past year has been very dull; do not know of any one mine that has run full time on the Pittsburgh, Cincinnati and St. Louis Railway; do not think the averege of the whole number will be equal to one half of their capacity.

Cause.—Competition in Ohio and Indiana with the trade we depended on to keep mines running, and the refusal on the part of miners and other employés to reduce wages to enable operators to compete with western operators, and the high rates of freights by railroads, has prevented us all from doing a larger business than we have done.

To be plain, we have had no check upon our workmen to enable any one of us to engage in a lively competition for that we have lost from the pressure of the times, and from the bad advice of those who should advise men to do that which will be to their best interests. Such has been the cause of our trade, as well as others having been diverted to other States west of us.

As soon as our miners in this country become educated to the fact that it does not pay, in the end, for themselves or operators, to engage in a strike, but be governed by the demands of trade, in our opinion, that is the trouble with the coal trade of Western Pennsylvania.

HUNTSMAN, MILLER & CO.

Enterprise Colliery.

Hartley & Marshall, Temperanceville, Allegheny county.

Mine located in Union township, Allegheny county.

Whole number of persons employed: When in full work, about 130; in summer and winter, 75.

Amount paid annually for wages of employés, $52,682 50.

Amount paid for materials used in business, $4,563·77.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	106	13	3c. pr. bu.	. . .	Variable 10	Mines worked 206½ days.	
Outside laborers,	1	. . .	$1 50	. . .	10		
Inside laborers,	3	. . .	2 00	. . .	10		
Outside mechanics,	2	. . .	2 00	. . .	10		
Inside mechanics,	1	. . .	2 00	. . .	10		
Inside mule drivers	6	. . .	Contract make $3 per day.	. . .	11		
Weigh-master,	1	. . .	$2 00	. . .	10		
Dumpers,	1	. . .	1 75	. . .	10		
Slate pickers,	1	1	50	50c.	10		
Mining overseers,	1	. . .	2 50	. . .	10		
Coupler,	. . .	1	60	60c.	10		
Trappers (door-keepers),	. . .	2	. . . . .	50c.	10		

CHARACTERISTICS OF COLLIERY.—Mine situate three miles south, opposite Pittsburgh; was commenced in 1853. Coal is mined by drift to the deep, and below, water level.

Coal transported by rail three miles to the Ohio river, thence by river to New Orleans, (principally.)

We are paying 78 cents for mining a ton of 2,000 pounds; transporting by rail, and then selling it for $1 30, which is the cheapest coal in the world, and is lower in price than at any time before, after making allowance for the high rate of wages paid. Very few in the trade here are getting cost out of the product of their mines.

R. HARTLEY.

Mansfield Coal and Coke Company.

Mansfield Coal and Coke Company, Pittsburgh, Allegheny county, Pa.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 29,487 tons coal; $33,500.

Whole number of persons employed, 110.

Amount of capital employed in business, $250,000.

Amount paid annually for materials used in business, $3,900.

Miners on wages, 70; days in operation during year, 180; outside laborers, 35; inside mule drivers, 5; weigh-master, 1; dumpers, 1.

REMARKS.—The bituminous coal trade has been dull for the last year. Cause: General demoralized condition of labor; onerous State taxes; consequently, unable to compete as against similar coals, mined in Ohio, Indiana, and Illinois, with injudicious legislation on the part of our State, are some of the causes for this depressed condition of the coal business in Allegheny county.

D. REISINGER,
Business Manager.

Jefferson Coal-Works.

Foster, Clark & Wood, McKeesport, Allegheny county.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 6,939 tons, @ 62½, $4,211 ; 33,695 tons @ $1 25 per ton, $42,121.

Whole number of persons employed, 121.

Amount of capital employed in business, $30,000.

Amount paid annually for wages of employés, 30,500.

Amount paid for materials used in business, $21,500.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours woaked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	100	. . .	*2 5-8 cts.	. . .	*9	5 mo.	* Average.
Miners on wages, B. Smith, ...	1	. . .	$2 25	. . .	*9	11 mo.	* Average.
Outside laborers, . .	1	. . .	2 00	. . .	10	8 mo.	
Inside laborers, . .	1	. . .	2 00	. . .	9	5 mo.	
Greaser, ...	1	. . .	2 00	. . .	9	5 mo.	
Hitcher, ...	1	. . .	2 00	. . .	9	5 mo.	
Outside mule drivers,	1	. . .	2 00	. . .	9	5 mo.	
Inside mule drivers,	9	. . .	2 25	. . .	9	5 mo.	
Weigh-master, . . .	1	. . .	2 50	. . .	9	5 mo.	
Dumpers, ...	1	1	2 25	$1 00	9	5 mo.	
Checkman, ...	1	. . .	2 25	. . .	9	5 mo.	
Mining overseers, .	1	. . .	2 75	. . .	9	12 mo.	
Boss driver and mule keeper, ...	1	. . .	2 75	. . .	10	12 mo.	

SANFORD C. CLARK.

Enterprise.

O'Neil & Co., private partnership, West Elizabeth, Allegheny county.

Mine located in West Elizabeth, Allegheny county, Pa.

Quantity of tons and value in dollars of annual product, 53,571 tons, $60,000.

Whole number of persons employed, 160.

Amount of capital employed in business, $56,110.

Amount paid annually for wages of employés, $45,000.

Amount paid for materials used in business, $15,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	130	. .	*$2 00	. . .	10	147	* Average.
Outside laborers,	10	. .	1 75	. . .	. . .	147	
Inside laborers,	4	. .	1 75	. . .	. . .	147	
Outside mechanics,	1	. .	2 00	. . .	. . .	147	
Inside mechanics,	1	. .	2 00	. . .	. . .	147	
Outside mule drivers.	1	. .	1 00	. . .	. . .	147	
Inside mule drivers,	9	. .	1 75	. . .	. . .	147	
Weigh-master,	1	. .	1 75	. . .	. . .	147	
Dumpers,	1	. .	1 50	. . .	. . .	147	
Mining overseers,	2	. .	2 00	. . .	. . .	147	

REMARKS.—Since the panic of 1873, our trade has been extremely dull, caused by our miners requiring us to pay more for mining than is being paid by other competing coal districts, and thereby driving our trade from us.

O'NEIL & CO.

Pittsburgh National Coal and Coke Company.

Pittsburgh National Coal and Coke company, Pittsburgh, Allegheny county.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 54,510 tons; $75,013.

Whole number of persons employed, 110.

Amount of capital employed in business, $156,200.

Amount paid annually for wages of employés, $35,876 91.

Amount paid for materials used in business, $4,160 15.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	80	15	. . .	. . .	10	240	
Outside laborers, . .	1	1	$1 50	$0 80			
Inside laborers, . .	2	. . .	1 10				
Outside mechanics, .	2	. . .	2 25				
Outside mule drivers,	. . .	3	. . .	1 25			
Inside mule drivers,	9	2	1 75	1 25			
Weigh-master, . . .	1	. . .	2 00				
Dumpers, ...	1	. . .	1 70				
Mining overseers, .	1	. . .	2 50				

EDWARD FISHER,
Secretary.

G. & W. Jones.

G. & W. Jones, Pittsburgh, Pa.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 41,000 tons; $44,300.

Whole number of persons employed, 135.

Amount of capital employed in business, $60,000.

Amount paid annually for wages of employés, $32,200.

Amount paid for materials used in business, $3,320.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	114	10	$2 25	$1 25	. . .	226	
Outside laborers, . .	6						
Outside mechanics, .	5						

G. & W. JONES.

Hampton Coal Mines.

Dickson, Stewart & Co., C. H. Armstrong, and Shoenberger & Co., Pittsburgh, Allegheny county.

Mine located in Allegheny county.

Quantity of tons and value in dollars of annual product, 26,067 tons; $42,641 16. On this product, we paid freight to the amount of about $9,000.

Whole number of persons employed, 91.

Amount of capital employed in business: About $200,000.

Amount paid annually for wages of employés, $24,260 69.

Amout paid for materials used in business, $1,820 74.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners, on contract,	75	. . .	$1 63	. . .	10	150	Average.
Outside laborers, . .	4	2	1 56	$ 50	10	150	
Inside laborers, . .	1	. . .	1 65				
Inside mule drivers,	5	. . .	1 75	. . .	10	150	
Weigh-master, . . .	1	. . .	2 00	. . .	10	150	
Dumpers, ...	1	. . .	1 00	. . .	10	150	
Mining overseers, . .	2	. . .	2 60	. . .	10	150	

HAMPTON COAL MINES.

Corey & Co.

Corey & Co., Braddock's, Allegheny county, Pa.

Mine located in Wilkins township, Allegheny county

Quantity of tons and value in dollars of annual product, 40,000 tons; value, $23,000. Whole number of persons employed, about 100 men. Amount of capital employed in business, $150,000.

Amount paid annually for wages of employés, $23,000, including freight.

Amount paid for materials used in business, $900 per acre, in the hill. Daily wages paid men, from $1 25 to $3 per day. Hours worked per day, 10. Days in operation during the year, 300.

J. B. COREY & CO.

BEAVER COUNTY.

American Cannel Mines, and Beaver Block Coal Mines.

Operated by I. F. Mansfield, Cannelton, Beaver county.

Mine located in Beaver county.

Quantity of tons and value in dollars of annual product, 15,000 tons; $24,000.

Whole number of persons employed: About 100 men and boys.

Amount of capital employed in business, $8,000 to $10,000.

Amount paid annually for wages of employés, $16,000.

Amount paid for materials used in business, $2,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	75	10	60 cts. per ton.	. . .	8	300	
Outside laborers, . .	10						
Outside mechanics, .	1	. . .	$1 75	. . .	10		
Weigh-master, . . .	1	. . .	. . . .	. . .	8		
Mining overseers,	1	. . .	. . . .	. . .	10		

CHARACTERISTICS OF COLLIERY.—Our cannel coal trade has been good, and promises well for this year. Our market is New York city and Canada. Our Beaver Block coal is a hard bituminous, but prices are so low have not pushed the sale of same. Low prices of iron, and stoppage of iron-works which we supplied, has produced low prices with us.

I. F. MANSFIELD.

Clinton Coal Mines.

Clinton Coal Company, Rock Point, Beaver county, Pa.

Quantity of tons and value in dollars of annual product, 19,467 tons; $28,227 15.

Whole number of persons employed, 75.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, ...	$21,782 22
Royalty, &c., ...	2,964 89
	$24,747 11

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	40	10	$1 50	$1 00	9	150	
Outside laborers, . .	6	. . .	1 25				
Inside laborers, . . .	4	. . .	1 80				
Outside mechanics, .	1	. . .	2 25				
Inside mechanics, .	1	. . .	2 00				
Outside mule drivers,	. . .	1	. . . .	75			
Inside mule drivers,	. . .	5	. . . .	1 30			
Weigh-master, . . .	1	. . .	1 25				
Mining overseers, .	1	. . .	3 00				

CLINTON COAL COMPANY.

Sterling Coal Mines.

Remarks.—We are not at present working our mines at Sterling, except our cannel coal mines, from which we are mining a small quantity, say 5,000 to 7,000 tons per year. The low price of iron, and excessive development of coal mines throughout the county have seriously impaired the prosperity of the business of mining coal in Beaver county, where our mines are located. We must wait and watch the tide of events, and I fear very patiently, too—but we are very thankful the coal will keep.

General office of Britts Coal Company, Limited, Sterling Mines, Beaver county, Pa., May 1, 1877.

CLARK J. BRITTS,
Secretary and Treasurer.

BRADFORD COUNTY.

Barclay Coal Company.

Towanda Coal Company, Elmira, Chemung county, New York.

Mine located in Bradford county.

Quantity of tons and value in dollars of annual product, $178,389\frac{920}{2000}$ net tons; $356,778 92.

Whole number of persons employed, 370.

Amount paid annually for wages of employés, $196,868 16.

Amount paid for materials used in business, $12,523 45.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	187	. . .	. . .	. . .	. . .	259	
Outside laborers, . .	76	. . .	$1 50	. . .	10	259	
Inside laborers, . .	27	23	1 66	$ 80	10	259	
Outside mechanics, .	9	. . .	1 85	. . .	10	300	
Outside mule drivers,	13	. . .	1 50	. . .	10	259	
Inside mule drivers,	20	. . .	1 50	. . .	10	259	
Weigh-masters, . .	2	. . .	2 36	. . .	10	259	
Dumpers, ...	8	. . .	1 50	. . .	10	259	
Mining overseers, .	2	. . .	2 66	. . .	. . .	259	
Civil engineers, . .	1	. . .	4 50				
Locomotive engin'rs,	1	. . .	2 60	. . .	10	259	
Locomotive firemen,	1	. . .	1 50	. . .	10	259	

A. B. CHAMBERLIN,
Superintendent.

Carbon Run.

Schraeder Coal Company, South Bethlehem, Northampton county.

Mine located in Bradford county.

Quantity of tons and value in dollars of annual product, 177,244 gross tons; cost at chutes, $147,037 79.

Whole number of persons employed, 231.

Amount of capital employed in business: Not able to say.

Amount paid annually for wages of employés, $128,483 20.

Amount paid for materials used in business, $18,554 59.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract,	150	. . .	*$ 55	. . .	8	250 days.	* Per ton.
Miners on wages,	6	. . .	2 08	. . .	10		
Outside laborers,	3	. . .	1 45	. . .	10		
Inside laborers,	7	2	1 50	$1 00	9		
Outside mechanics,	4	. . .	2 08	. . .	10		
Inside mechanics,	2	. . .	1 97	. . .	10		
Outside mule drivers,	2	1	1 53	82	9		
Inside mule drivers,	16	. . .	1 60	. . .	8		
Weigh-master,	1	. . .	2 25	. . .	10		
Dumpers,	4	. . .	1 55	. . .	9		
Loaders,	2	. . .	1 66	. . .	10		
Slate pickers,	7	1	1 40	82	9		
Prop sawyers,	2	. . .	1 66	. . .	10		
Mining overseers,	2	. . .	3 75				
Civil engineers,	1	. . .	5 00				
Door tenders,	. . .	18	. . .	82	8		

R. A. ABBOTT,
Superintendent.

BLAIR COUNTY.

Remington Shaft and Mines.

Blair Iron and Coal Company, Hollidaysburg, Blair county.

Mine located in Blair county.

Quantity of tons and value in dollars of annual product, 86,096.300 tons @ 80c.; $68,076 92.

Whole number of persons employed, 190 men and boys.

Cannot give you amount of capital invested, as we are running furnaces and mines both.

Amount paid annually for wages of employés, $57,794 31.

Amount paid for materials used in business, $8,896 51.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	137 men	and boys	. . .	. . .	10	About 11 months.	
Miners on wages, . .	Cutting	coal @	36c. pr.	ton.	10		
Outside laborers, . .	2	3	$1 45	70c.	10		
Inside laborers, . .	10	4	1 35	44c.	10		
Outside mechanics, .	4	. . . . .	1 62	. . .	10		
Inside mule drivers,	13	8	1 24	87c.	10		
Weigh-master, . . .	2	. . . . .	1 34	. . .	10		
Dumpers, ...	3	. . . . .	1 51	. . .	10		
Mining overseers, .	2	. . . . .	3 12	. . .	10		
Engineers, ...	2	. . . . .	1 65	. . .	10		

REMARKS.—Have given you about as correct a report as I can make for 1876.

W. R. BABCOCK, *Superintendent*,
Per McCAHAN.

Horse Shoe Coal Mines.

S. C. Baker, Altoona, Blair county.

Mine located in Blair county.

Quantity of tons and value in dollars of annual product, 13,736 tons of 2,000; $12,360.

Whole number of persons employed: About 25.

Amount paid annually for wages of employés, $10,000.

Amount paid for materials used in business: About $1,000—lumber, iron, car-wheels, &c.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	16	. . .	$1 25	. . .	9	250	
Outside laborers,	2	. . .	1 00	. . .	10	250	
Inside laborers,	1	. . .	1 10	. . .	9	250	
Outside mechanics—							
Blacksmith,	1	. . .	1 50	. . .	10	250	
Carpenter,	1	. . .	1 40	. . .	10	75	
Outside mule drivers,	3	. . .	1 00	. . .	10	250	
Inside mule drivers,	2	. . .	1 10	. . .	9	250	
Weigh-master, Dumpers,	1	. . .	1 45	. . .	10	250	
Mining overseers, Civil engineers,	1	. . .	3 00				

S. C. BAKER.

CAMBRIA COUNTY.

Tunnel Hill.

Kittanning Coal Company, Philadelphia.

Mine located in Cambria county.

Quantity of tons and value in dollars of annual product, $4,464\frac{3}{20}$ G. tons. Colliery only worked partially, and but six months.

Whole number of persons employed, 36.

Amount paid annually for wages of employés, $3,925.

In the classification made below, the number of each class employed:

Miners on contract, 29; outside laborers, 2; outside mule drivers, 1; inside mule drivers, 1; weigh-master, 1; dumpers, 1; mining overseers, 1.

J. R. CAMERON,
Manager, &c.

Stineman's.

J. C. Stineman, South Fork, Cambria county.

Mine located in Cambria county.

Quantity of tons and value in dollars of annual product, 3,600 tons; about $2,700.

Whole number of persons employed, 16.

Amount of capital employed in business, $3,000.

Amount paid annually for wages of employés, $1,850.

Amount paid for materials used in business, $100.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	8	5	$1 50	80c.	8	200	
Outside laborers, .	1	. . .	1 25	. . .	8	240	
Outside mule drivers,	1	. . .	1 25	. . .	8	235	
Inside mule drivers,	. .	1	. . .	80c.	8	200	

REMARKS.—My mines are situate on the Pennsylvania Central railroad, one mile east of South Fork station; have been operated since 1869. The water level of coal is south thirty degrees west.

The year just ended has been remarkably dull, owing to the general depression of business throughout the country. The high rate of transportation prevents us from going into the eastern markets with our coal, Lyllies having 15c. per ton, Gallitzin, 30c., and Clearfield, 30c. per ton over us, which very materially operates against the operators in this district.

J. C. STINEMAN.

Benton & James.

Benton & James, Johnstown, Cambria county, Pa.

Mine located in Conemaugh township.

Quantity of tons, 2,792; value, $3,071 20.

Whole number of persons employed, 6.

Amount of capital employed in business, $3,000.

Amount annually paid for wages of employés, $2,044.

Amount paid for materials used in business, $139 60.

Employ six miners on contract; days in operation during the year, 300.

REMARKS.—We work all by the ton in our mines, paying boys and men alike, 75c. per ton.

The character of the mine is a "drift," and not a "slope," bituminous coal; and work no horses or mules, and employ no drivers. The mining overseer is one of the partners, and receives no *per diem* pay.

EBEN JAMES.

Lilly Vale Colliery.

William Tiley, Hemlock, Cambria county.

Quantity of tons mined, 1,026; value, $820.

Whole number of persons employed, 11.

Capital employed in business, $3,000.

Amount paid for materials, $200. Wages, 9 men at $1 25 per day, and 2 boys at 90c. per day. Work, 10 hours. Days in operation during the year, 120.

WM. TILEY.

CLARION COUNTY.

Fairmount.

Fairmount Coal Company, New Bethlehem, Clarion county.

Mine located in Fairmount, Clarion county.

Quantity of tons and value in dollars of annual product, 55,044 tons; $27,522.

Whole number of persons employed: Average No., 112.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	95	6	50c. per ton.	75c.	9	Full time.	
Inside laborers, . . .	2	. . .	. . . .	$1 50			
Outside mechanics, .	1	. . .	. . . .	2 25			
Outside mule drivers,	2	. . .	. . . .	1 25			
Inside mule drivers,	9	. . .	. . . .	1 50			
Weigh-master, . . .	1	. . .	. . . . . .	2 00			
Dumpers, ...	1	. . .	. . . .	1 50			
Mining overseers, .	1						

J. M. BRINKER,
General Manager and Treasurer.

Mineral Ridge Coal Company.

Thomas J. Skidmore, Fredonia, Chautauqua county, New York.

Mine located in Clarion county, Pennsylvania.

Quantity of tons and value in dollars of annual product: No. of tons 51,390; value, $81,056 99.

Whole number of persons employed, 100.

Amount of capital employed in business, $50,000.

Amount paid annually for wages of employés, $46,641 53.

Amount paid for materials used in business, $819 57.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	76	. . .	From $1 25 to $1 50 per day.	40c. to 75c. per day.	From 8 to 10 hours.	Nearly full.	
Outside laborers, . .	3	. . .					
Inside laborers, . . .	2	. . .					
Outside mechanics, .	1	. . .					
Outside mule drivers,	1	. . .					
Inside mule drivers,	8	. . .					
Weigh-master, ...	1	. . .					
Dumpers, ...	1	. . .					
Slate pickers, ...	2	. . .					
Mining overseers, .	1	. . .					
Engineers, ...	1	. . .					
. . . .	. . .	4					

F. E. COOKE.

Red Bank Colliery.

Red Bank Mining Company, New Bethlehem, Clarion county.

Mine located in Mahoning township, (on the county line,) Armstrong county.

Amount of capital employed in business, $500,000.

CHARACTERISTICS OF COLLIERY.—One vein of cannel coal, and one o bituminous gas coal.

REMARKS.—On account of pecuniary embarrassments, and general depression of the trade, no business has been done at the mines for past year.

FRANCIS CHILDS,
Treasurer R. B. M. Co.

CLEARFIELD COUNTY.

Webster Colliery.

Webster Coal Company, (limited,) Houtzdale, Clearfield county.

Mine located in Clearfield county.

Quantity of tons and value in dollars of annual product, $79,012\frac{1410}{2240}$ tons; $64,147 53.

Whole number of persons employed, 128.

Amount of capital employed in business, $75,000.

Amount paid annually for wages of employés, $54,000.

Amount paid for materials used in business, $6,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	100	10	40 c. per ton.	40 c. p. ton.	7	218 days.	
Outside laborers,	. .	1	. . . .	50 cents.	9	do.	
Inside laborers,	1	. .	$1 75	. . . . .	8	do.	
Outside mechanics,	1	. .	1 75	. . . . .	9	do.	
Outside mule drivers,	1	. .	1 75	. . . . .	9	do.	
Inside mule drivers,	7	. .	1 40	. . . . .	9	do.	
Weigh-master,	1	. .	1 50	. . . . .	9	do.	
Dumpers,	2	. .	1 20	. . . . .	9	do.	
Mining overseers,	1	. .	$75 per m. & house rent.	. . . . .	10	Full time.	
Civil engineers,	2	. .	$6 00	. . . . .	. .	1 month.	
Shipper and clerk,	1	. .	$50 per month.	. . . . .	. .	Full time.	

WM. J. MATZ,
General Manager Webster Coal Company (limited.)

Moshannon Colliery.

Moshannon Coal Company, Sobieski, Clearfield county.

Mine located in Clearfield county.

Quantity of tons and value in dollars of annual product, 38,422 gross tons, at a valuation of $38,981 17.

Whole number of persons employed: Sixty (60) men and boys.

Amount of capital employed, $100,000.

Amount paid annually for wages of employés, including salaries of president and secretary, $32,078 76.

Amount paid for materials used in business, $2,650 79.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	41	4	. . .	. . .	. . .	. . .	Av'ge about $1 62 p. diem.
Outside laborers,	3	2	$1 75	87c.	8	300	
Outside mechanics,	1	. . .	2 00				
Outside mule drivers,	5	. . .	1 62				
Weigh-master,	1	. . .	1 75				
Dumpers,	1	. . .	1 75				
Mining overseers,	2	. . .	3 00				
Stable boss,	1	. . .	2 00	. . .	. . .	365	

REMARKS.—While we own a good colliery, with no royalty to pay, and coal well adapted for melting and steam purposes, and are doing a moderate amount of business, with the least possible expense, and exercising the most rigid economy, the profits do not pay the interest on the amount of capital invested.

We started the year 1876 with a good surplus on hand, and we own, also, about 100 cars. The amount received for car service, with the profits, and some of the surplus, enabled us to pay the same dividends as we have for years past, but it was not made from the profits of the coal.

We think the tonnage tax should be more equally divided; in other words, that individual firms should pay the same tonnage tax as chartered companies. Individuals pay no tax on dividends, or profits, and none on tonnage. Our taxes for last year were for tonnage, dividends, State, and county, and amounted to $2,001 90.

The outlook for the present year is not encouraging; coal is being sold at very little, if any, above cost of production, allowing scarcely anything for the coal.

J. FRANK KNIGHT,
Secretary.

PHILADELPHIA, *May 15, 1877.*

Beaver Colliery.

Kittanning Coal Company, Osceola, Clearfield county.

Mine located in Decatur township, Clearfield county.

Quantity of tons and value in dollars of annual product, $2,782\frac{6}{20}$ gross tons. Only 40 days worked during year.

Whole number of persons employed, 34.

Amount paid annuallly for wages of employés, $1,243 90.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	25	5	. . .	. . .	10	24	
Outside laborers, . .	1	. . .	$1 50				
Outside mule drivers,	2						
Weigh-master, . . .	1						
Civil engineers, . . .	1						

J. R. CAMERON,
Manager, &c.

Franklin Colliery.

Kittanning Coal Company, Philadelphia.

Mine located in Clearfield county.

Quantity of tons and value in dollars of annual product, $131,734\frac{7}{20}$ gross tons.

Whole number of persons employed, 183.

Amount paid annually for wages of employés, $88,496.

Miners on contract and wages, 147; outside laborers, 6; inside laborers, 3; outside mechanics, 3; inside mechanics, 1; outside mule drivers, 2; inside mule drivers, 15; weigh-master, 1; dumpers, 3; mining overseers, 1; civil engineers, 1; locomotive engineers, 1.

REMARKS.—The Franklin Colliery is situated in the village of Houtzdale, Clearfield county, Pennsylvania, six miles south-west of Osceola Junction. These extensive mines were opened about six years ago. They are situated in the center of what is known as the Moshannon coal basin. This coal field is about 1,412 feet above the city of Tyrone, and 2,028 feet above tide-water. There are five explored seams of coal on the lands of the company, in the Moshannon basin; but only one developed and worked at present; said seam is known as the Moshannon, or "D," vein. This seam of coal is from $5\frac{1}{2}$ to 6 feet thick, of pure, clean coal, without any impurities. The analysis of this coal, and which is fully sustained by actual working, is 76.39 per cent of fixed carbon.

From the Franklin mines, the company can produce 2,000 tons per day. But owing to the depressed condition of the coal market, these works are only running about half time, and even less than half their capacity. The coal territory owned and controlled by the company consists of a little over 10,000 acres, or 16 square miles, situated in the center of the coal basin, on the head waters of the Moshannon creek, in the counties of Clearfield, Centre, Blair, and Cambria. The office of the company: No. 125 South Fourth Street, Philadelphia. Officers: President, H. H. Shillingford; secretary and treasurer, H. T. Shillingford.

J. R. CAMERON,
Manager and Mining Engineer.

Cuba Mines.

J. T. Leonard, Clearfield, Clearfield county.

Mine located in Clearfield county.

Quantity of tons and value in dollars of annual product, 12,000 tons.

Whole number of persons employed, 18.

Amount of capital employed in business, $15,000.

Amount paid annually for wages of employés, $4,800.

Amount paid for materials used in business, $1,200.

Miners on contract: 12 men, 2 boys; wages paid men, 40 cents per ton;

hours worked per day, 8 ; days in operation during the year, 250 ; outside mule drivers, 2 ; inside mule drivers, 2 men, 1 boy. These four men do all the labor these names call for.

REMARKS.—These mines changed their name about three years ago, from Union to Cuba. J. T. Leonard is in possession of the mines now formerly owned by Perkes & Parker. J. T. Leonard is running them in his name since the first of this month, April, 1877. We are shipping about two cars per day at present, or about twenty-five tons per day, and have been running the mines since first of April. I cannot give you any more correct report than this.

JOHN ASHCROFT,
Superintendent.

Excelsior Colliery.

Fisher Bros. & Miller, Houtzdale, Clearfield county.

Mine located in Clearfield county.

Quantity of tons and value in dollars of annual product, 65,000 gross tons ; value, $55,000.

Whole number of persons employed, 93.

Amount of capital employed in business, $38,000.

Amount paid annually for wages of employés, $48,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	80	. . .	Average $1 75		8	380	
Outside laborers,	3	. . .	1 60				
Outside mule drivers,	2	. . .	1 75				
Inside mule drivers,	3	. . .	1 60				
Weigh-masters,	1	. . .	1 75				
Dumpers,	1	. . .	1 60				
Slate pickers,	1	. . .	1 60				
Mining overseers,	1	. . .	3 00				
Civil engineers,	1	. . .	6 00				

FISHER BROS. & MILLER.

CHARACTERISTICS OF COLLIERY.—This new colliery has been in operation a little less than two years, being on the celebrated coal seam now worked on the Upper Moshannan. We have now 5 feet 4 to 5 feet 8 inches of clean coal in the face of our workings at the present time. It is only because our colliery is favorably located for producing cheap coal, and that the quality of our coal is very superior, that we have been enabled to run our colliery regularly without loss. We have about covered expenses, nor can we expect any price for coal under the ruinous competition and overproduction. The fearful sacrifices being made in price of anthracite coal, is already inducing quite a number of buyers to quit the consumption of bituminous and use anthracite, especially in New England. Cumberland coal, under the recent reductions, is also thrown into the eastern market, at greatly reduced figures, and we look for a very unfavorable trade during the year 1877, for the reasons we have assigned.

FISHER BROS. & MILLER.

CLINTON COUNTY.

Wistar Colliery.

Eldridge, Averill & Co., Wistar, Clinton county.

Mine located in Clinton county.

Amount of capital employed in business, $200,000.

REMARKS.—These mines have not been in operation during the past year. Two veins have been opened, and coal fairly tested. Makes excellent coke, close, compact, capable of sustaining a heavy charge of ore, well adapted to furnace use. Veins of coal average about three feet, including an irregular seam of slate, sometimes two inches, and sometimes as much as eight inches. It is not the intention of E., A. & Co., to ship raw coal, but to run a furnace with it as soon as the price of iron will justify the building of one.

ELDRIDGE, AVERILL & CO.
Per R. B. SHOEMAKER, *Agent.*

ELK COUNTY.

Daguscahonda Coal Mine.

North-western Mining and Exchange Company, Daguscahonda, Elk county.

Mine located in Elk county.

Quantity of tons, and value in dollars of annual product during 1876: 27,525 tons mined; $34,406 25.

Whole number of persons employed during 1876: Average 70, monthly.

Amount of capital employed in business: The capital stock of the company is $500,000, but the amount actually employed in the business, which is small, is not over $20,000; only a very small portion of the property being as yet developed.

Amount paid annually for wages of employés during 1876, $23,216 26.

Amount paid for materials used in business, $12,604 08.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	39	. . .	50 cts. per ton.	. . . .	. . . .	260	
Miners on wages, . .	1	. . .	$1 50	. . . .	10	260	
Outside laborers, . .	11	. . .	$1 25 to 1 50	. . . .	10	260	
Inside laborers, . . .	2	2	1 25	50 cts.	10	260	
Outside mechanics, .	3	. . .	2 00	. . . .	10	260	
Inside mechanics, .	1	. . .	1 75	. . . .	10	260	
Outside mule drivers,	2	. . .	1 00	. . . .	10	260	
Inside mule drivers,	5	. . .	1 25	. . . .	10	260	
Weigh-master, . . .	1	. . .	1 50	. . . .	10	260	
Dumpers, ...	2	. . .	1 35	. . . .	10	260	
Mining overseers, .	1	. . .	2 50	. . . .	10	300	
Civil engineers, . .	1	. . .	4 50	. . . .		300	
Superintendent, . .	1	. . .	Served without charge,	. . . .	. . . .	300	
Clerk, ...	1	. . .					

CHARACTERISTICS OF COLLIERY.—The vein worked is the "C;" a free burning, good steam coal, and is reached by a drift. Was opened in the wrong place by former company, and has been worked at a disadvantage. Openings at other points on the vein are necessary for a more economical working. Chutes are some distance away from the mouth, requiring the use of mules for haulage. Present capacity of mine is about 200 tons per day; has not been worked even to that capacity during the past year, owing to sharp competition, the inability to mine profitably at the ruling prices, and to the dullness in trade affecting the company, as it has the country generally. In the same time it has worked at a loss. Outlook for the future is very much brighter, and the mine opened is now working up to its full capacity, the management having been successful in procuring contracts from prominent Canadian and New York railroad companies. Probably new openings, at more favorable points, will be made during the year. A branch road, five miles in length, owned by the company, connects the colliery with the Philadelphia and Erie railroad.

St. Mary's Colliery.

St. Mary Coal Company, Williamsport, Lycoming county, Pa.

Mine located in Elk county.

Quantity of tons and value in dollars of annual product, 81,687 tons; $117,100 58.

Whole number of persons employed, 117.

Amount of capital employed in business, $295,000.

Amount paid annually for wages of employés, $70,000.

Amount paid for materials used in business, $10,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operaion during year.	REMARKS.
Miners on wages, . .	100	. . .	$2 00			Full time.	
Inside laborers, . . .	1	. . .	2 00				
Outside mechanics, .	2	. . .	1 75				
Outside mule drivers,	3	. . .	1 25				
Inside mule drivers,	3	. . .	1 25				
Weigh-master, . . .	2	. . .	1 50				
Dumpers, ...	2	. . .	1 50				
Mining overseers, .	3	. . .	3 25				
Car oiler, ...	. . .	1	. . .	$0 60			

CHARACTERISTICS OF COLLIERY.—This coal is noted for its generating of steam rapidly, very rich in bitumen, and very strong; sometimes by the weakness of the covering, the water runs through and strains the coal, giving it a muddy or rusty appearance. Many persons using it prefer it to the black coal.

J. B. CORYELL,
Secretary.

FAYETTE COUNTY.

Pittsburgh and Connellsville Gas, Coal, and Coke Company's Mines.

Pittsburg and Connellsville Gas, Coal and Coke Company, Pittsburgh, Allegheny county, Pa.

Mines located in Fayette county.

Quantity of tons and value in dollars of annual product, 3,000,000 bushels coke; value at mines on cars, $60,000.

Whole number of persons employed, 187.

Amount of capital employed in business: Capital stock appraised at $81,720.

Amount paid annually for wages of employés, $84,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Superintendent, . .	1	. . .	$3 33⅓				
Miners on contract,	80	. . .	. . .	. . .	. . .	. . .	75 cents per hundred.
Coke-drawers,	45	. . .	. . .	. . .	. . .	. . .	60 cents per oven.
Outside laborers, . .	31	. . .	1 25			In operation whole year.	
Watchman, ...	1	. . .	1 65				
Clerk, ...	1	. . .	2 00				
Sup't of machinery,	1	. . .	3 33⅓				
Yard man, ...	1	. . .	1 65				
Oven chargers, . . .	3	. . .	1 65				
Firemen, ...	2	. .	1 50				
Inside mule-drivers.	. . .	5	. . .	$0 75			
Weigh-masters, . .	2	. . .	1 65				
Carpenters, ...	5	. . .	2 10				
Blacksmiths, ...	2	. . .	2 10				
Brakeman, ...	1	. . .	1 65				
Mining overseers, .	2	. . .	2 25				
Eng'rs of machinery,	3	. . .	2 70				
Locomotive engineer,	1	. . .	2 20				

JOHN F. DRAVO,
General Manager.
By WILHELM.

Frick Mines—Henry Clay Mines.

H. C. Frick, Broad Ford, Fayette county.

Mines located in Fayette county.

Quantity of tons and value in dollars of annual product, 100,000 tons; about $95,000.

Whole number of persons employed: About 150.

Amount of capital employed in business, $250,000.

Amount paid annually for wages of employés: About $60,000.

Own and use my own coal.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	65	. . .	About $1 75	. . .	8 to 10	About 300	

Miners on wages, none; outside laborers and coke-drawers, 55; outside mechanics, 3; inside mechanics, 2; outside mule-drivers, 5; inside mule-drivers, 10; weigh-master 2; dumpers, 5; mining overseers, 2; civil engineers, 1.

REMARKS.—I have two mines, and coke-works attached to each—200 coke ovens. All, or nearly all, the coal I mine is manufactured into coke.

H. C. FRICK,
Successor to FRICK & Co.

Umpire Coal Mine.

Leased from Bowman & Hogg.

Jno. S. Cunningham & Lewis H. Abrams, Brownsville, Fayette county.

Mine located in Fayette county.

Quntity of tons, and value in dollars of annual product for 1876: 31,680 tons of 2,000 pounds, worth 90 cents per ton.

Whole number of persons employed: From 20 to 80 men and boys.

Amount of capital employed in business, $14,000.

Amount paid annually for wages of employés for 1876, $20,000.

Amount paid for materials used in business: From $800 to $1,400.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	40	. . .	2 cts. per bus.; can mine from 100 to 120 bus. per day.	. . . .	10	200	
Outside laborers, . .	4	. . .	$1 50	. . . .	10		
Inside mechanics, .	1	. . .	2 50	. . . .	10	200	
Outside mule drivers,	2	. . .	1 25	. . . .	10	200	
Inside mule drivers,	4	. . .	1 25	. . . .	10	200	
Weigh-master, . . .	1	. . .	2 50	. . . .	10	200	

JNO. S. CUNNINGHAM & CO.

Carondelet Coal Mine.

Frazer & Frye, Fayette City, Fayette county, Pa.

Mine located in Fayette county.

Quantity of tons, and value in dollars of annual product: 38,632 tons; $26,375 21.

Whole number of persons employed, 80 men.

Amount of capital employed in business, $50,000.

Amount paid annually for wages of employés, $32,000.

Amount paid for materials used in business, $12,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	70	. . .	$2 00	. . . .	10	200	
Outside laborers, . .	2	. . .	2 00	. . . .	10	200	
Inside laborers, . .	1	. . .	2 00	. . . .	10	200	
Outside mule drivers,	1	. . .	1 75	. . . .	10	200	
Inside mule drivers,	4	. . .	1 75	. . . .	10	200	
Weigh-master, . . .	1	. . .	2 00	. . . .	10	200	
Dumpers, ...	1	. . .	1 75	. . . .	10	200	

CHARACTERISTICS OF COLLIERY.—Our mine is located in Pool No. 4, on the Monongahela river, four and one half miles above Lock No. 4. We mine six feet of coal; have four openings in front, two at side, and two in the rear. Use T iron rail in all main and dark entries. Ship by water only, in flats, barges, and coal boats. Our flats carry 120 tons each, our barges carry 480 tons each, and our coal boats carry 880 tons each. We were idle three months during the year—one month by repairs on our locks, two months on strikes by miners.

FRAZER & FRYE.

Morgan Mines.

Morgan & Co., Pittsburgh, Allegheny county.

Mine located in Fayette county.

Quantity of tons and value in dollars of annual product, 33,725 tons; estimated $50,000.

Whole number of persons employed, 75.

Amount paid annually for wages of employés, $35,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	30	. . .	$1 50	. . .	8	309	
Outside laborers, . .	32	. . .	1 50	. . .	8	309	
Inside laborers, . . .	3	. . .	1 35	. . .	. . .	309	
Outside mechanics, .	1	. . .	1 80	. . .	8	309	
Inside mechanics, .	2	. . .	1 80	. . .	8	309	
Outside mule drivers,	1	. . .	1 25	. . .	8	309	
Inside mule drivers,	4	. . .	1 25	. . .	8	309	
Weigh-master, . . .	1	. . .	1 60	. . .	8	309	
Mining overseers, .	1	. . .	. . .	. . .	8	309	

MORGAN & CO.

Globe Mines.

A. A. Hutchinson & Bro., Pittsburgh, Allegheny county.

Mine located in Fayette county.

Quantity of tons and value in dollars of annual product, 32,000 tons coke manufactured from 45,000 tons coal; value, $35,200.

Whole number of persons employed, 47.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, $25,000.

Amount paid for materals used in business, $6,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	25	. . .	$1 75	. . .	. . .	11½ months.	
Outside laborers, . .	2	. . .	1 50	. . .	. . .		
Outside mechanics, .	1	. . .	2 00	. . .	. . .		
Outside mule drivers,	2	. . .	1 85	. . .	. . .		
Inside mule drivers,	2	. . .	1 85	. . .	. . .		
Weigh-master, . . .	1	. . .	1 75	. . .	. . .		
Superintendent, . .	1	. . .	2 25	. . .	. . .		
Mining overseers, .	1	. . .	2 00	. . .	. . .		
Coke drawers, . . .	12	. . .	60c. per oven.	. . .	. . .		

A. A. HUTCHINSON & BRO.

Sterling Mines.

Brown & Cochran, Dawson Station, Fayette county.

Mine located in Fayette county.

Quantity of tons and value in dollars of annual product, 115,200 tons; $115,200.

Whole number of persons employed, 257, (March, 1877.)

Amount of capital employed in business, $200,000.

Amount paid annually for wages of employés, $99,741 04 paid to hands in 1876.

Amount paid for materials used in business, $6,000 yearly.

CLASSIFICATION FOR MARCH, 1877.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	109	10	$1 50	$0 75	. . .	275	
Outside laborers, . .	85	10	1 75	75			
Inside laborers, .	4	. . .	1 75				
Outside mechanics, .	10	. . .	2 00				
Outside mule drivers,	9	. . .	1 50				
Inside mule drivers,	13	. . .	1 50				
Dumpers, ...	3	. . .	1 50				
Mining overseers, .	2	. . .	2 50				
Outside overseers, .	2	. . .	2 50				

BROWN & COCHRAN,
Per J. R. LAUGHREY, *Agent.*

Washington Mines.

Cochran & Stricklers, Broadford, Fayette county.

Mine located in Tyrone township, No. 1, Fayette county.

Quantity of tons, and value in dollars of annual product, 9,613$\frac{1}{5}$ tons of coal manufactured into coke, producing 5,580 tons of coke, amounting to	$5,978 06	
Amount of coal for custom use, 282 tons, amounting to	261 29	
		$6,239 35

Whole number of persons employed, 19.

Amount of capital employed in business, $30,000.

Amount paid for wages of employés during time in operation, $4,725 95.

Amount paid for materials used in business, $613 40.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	8	. . .	$1 75	. . .	. .	155	
Outside laborers, . .	1	. . .	1 25	. . .	10	155	
Outside mule drivers,	1	. . .	1 65	. . .	. . .	155	
Inside mule drivers,	1	. . .	1 65	. . .	. .	155	
Coke drawers, . . .	6	. . .	1 44	. . .	. . .	155	
Mining overseers, .	1	. . .	1 65	. . .	. . .	155	
Superintendent, . .	1	. . .	1 65	. . .	. . .	155	

COCHRAN & STRICKLERS.

Excelsior Coal Works.

Jacobs & Bortner, (Daniel Bortner operating,) Fayette City.

Mine located in Fayette county.

Quantity of tons and value in dollars of annual product, 1,828 tons; $2,275 40.

Whole number of persons employed, 15.

Amount of capital employed in business, $2,000.

Amount paid annually for wages of employés, $856 59.

Amount paid for materials used in business, $65.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	12	. . .	$1 75	. . .	10	43	
Inside laborers, . .	1	. . .	1 50				
Inside mule drivers,	1	. . .	1 75				
Weigh-master, . . .	1	. . .	1 75				

REMARKS.—I did not run very strong last fall, as the times were hard, money scarce. I run a little in October, November, and December. Coal business has been very dull; nothing to be made in it. Coal has been very low; the market has been full, and running over. So many miners in all the pits, they soon fill the market. That is one reason coal is low. The Excelsior mine is bothered with water. It is a big expense to keep it out. If coal would bring a better price, I would try to get the water out by a drain, or pipe. The mines are in operation since the ice went out.

DANIEL BORTNER

Lomison Mines.

Scottdale, Westmoreland county.

Mine located in Fayette county.

Mine not worked during the year 1876.

J. STAUFT.

W. A. Kifer.

W. A. Kifer, Scottdale, Westmoreland county.

Mine located in Tyrone township, Fayette county.

Quantity in tons and value in dollars of annual product, from 1st June to December, inclusive, 3,887 tons; $3,887 product.

Whole number of persons employed, 10.

Amount of capital employed in business, $2,500.

Amount paid annually for wages of employés, $1,907 11.

Amount paid for materials used in business, lumber, iron, &c., $300.

W. A. KIFER.

Furnace Mines.

Everson, Macrum & Co., Scottdale, Westmoreland county.

Mine located in Fayette county.

Quantity of tons and value in dollars of annual product, 51,346 tons value of same, $51,346.

Whole number of persons employed, 36.

Amount of capital employed in business.*

Amount paid annually for wages of employés, $20,000.

Amount paid for materials used in business, $5,000.

CLASSIFICAEION.	Number of men, . .	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	30	. . .	$1 50†	. . .	10	250	†Average.
Inside laborers, . .	1	. . .	1 25	. . .	10	200	
Outside mechanics, .	1	. . .	1 75	. . .	10	250	
Inside mule-drivers,	2	. . .	2 00	. . .	10	250	
Weigh-master, . . .	1	. . .	1 75	. . .	10	250	
Mining overseers, .	1	. . .	2 50	. . .	10	300	

REMARKS.—* Mines and iron-works connected. Cannot say what capital of mines alone is.

EVERSON, MACRUM & CO.,
Per G. H. E.

Home Coke Works.

Sherrick Rice & Co., Scottdale, Westmoreland county.

Mine located in Fayette county.

Quantity of tons, and value in dollars, of annual product, 6,260 tons of coke; value, $6,250.

Whole number of persons employed, 13.

Amount of capital employed in business, $10,000.

Amount paid annually for wages of employés, about $3,500.

Amount paid for materials used in business, $800.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	5	1	$1 50	$1 00	8	250	
Outside laborers, . .	4	2	1 25	75	8		
Inside mule drivers,	1	. . .	1 50	. . .	8		

REMARKS.—Trade dull, price of coke *too* low. As to cause—one cause is production in excess of demand, and want of organization. Operators anxious to keep in operation, undersell each other, and are almost giving their coal away.

Vein of coal is 9 feet thick. Works situated on south-west branch of B. R. R. Consists of twenty coke ovens.

SHERRICK RICE & CO.

FULTON COUNTY.

Wishart's.

David Horton, Wells' Tannery, Fulton county.

Mine located in Wells township, Fulton county.

Quantity of tons and value in dollars of annual product, 126 tons; $189.

Whole number of persons employed, 2.

Miners on contract, 2 at 75c. per ton.

CHARACTERISTICS OF COLLIERY.—This colliery is located in Wells valley, Fulton county; opened on the south side of Broad Top. It is worked on a small scale, there being no railroad very near; consequently, it has to be hauled away to private parties. The vein is over 4 feet *clear;* easily worked; coal semi-bituminous; good for all purposes; quantity inexhaustible; is worked only through the winter.

The man who runs the mine, (David Horton,) lives fourteen miles from where I reside. I sent this paper to him, and he returned it with amount, marked in pencil. I see it falls short of last year.

H. S. WISHART.

HUNTINGDON COUNTY.

Mooredale.

Reakirt Bro. & Co., Philadelphia.

Mine located in Huntingdon county.

Quantity of tons and value in dollars of annual product, 12,500 tons; value at mines, $12,500.

Whole number of persons employed, 38.

Amount of capital employed in business, $20,000, exclusive of land and improvements.

Amount paid annually for wages of employés, $10,000.

Amount paid for materials used in business, $800.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	28	3	$4 00	$1 00	8	200	
Outside mechanics, .	1	. . .	1 40	. . .	10		
Outside mule drivers,	. . .	1	. . .	1 00	7		
Inside mule drivers,	3	. . .	1 40	. . .	8		
Weigh-master, . . .	1	. . .	1 40	. . .	10		
Mining overseers, .	1	. . .	2 00	. . .	10		

REAKIRT BRO. & CO.
DAVID E. CONRAD, *Superintendent.*

LAWRENCE COUNTY.

Beaver.

Lee & Patterson, Rock Point, Beaver county.

Mine located in Lawrence county.

Quantity of tons and value in dollars of annual product, 27,218 tons; $39,466 10.

Whole number of persons employed, 125.

Amount of capital employed in business, $150,000.

Amount paid annually for wages of employés, $33,698 67.

Amount paid for materials used in business, (or near,) $5,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	75	. . .	$2 00	. . .	. . .	8 mos	
Outside laborers, . .	8	. . .	1 50	. . .	10		
Inside laborers, . .	3	. . .	2 00	. . .	10		
Outside mechanics, .	2	. . .	2 25	. . .	10		
Inside mechanics. .	2	. . .	3 00	. . .	10		
Outside mule drivers,	1	. . .	80	. . .	10		
Inside mule drivers,	7	. . .	1 50	. . .	10		
Weigh-master, . . .	1	. . .	1 50	. . .	10		
Dumpers, ...	2	. . .	1 50	. . .	10		
Mining overseers, .	1	. . .	3 00				

REMARKS.—This is as near as we can give our statement. This (1876) has been a hard year in our trade. Truly yours,

LEE & PATTERSON,
Per HAMILTON, *Manager*.

Wampum Coal Company.

Wampum Coal Company, Wampum, Lawrence county.

Mine located in Lawrence county.

Quantity of tons and value in dollars of annual product, 13,861 tons; value, $20,098 45.

Whole number of persons employed, about 35 men, on an average.

Amount of capital employed in business, about $100,000.

Amount paid annually for wages of employés, $10,702 70.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	23	. .	about $1 75 earned.			Work on and off; did not work steady; men made a good living.	
Outside laborers, . .	3	. . .	$1 10				
Inside laborers, . .	2	. . .	1 25				
Outside mechanics, .	1	. . .	1 50				
Outside mule drivers,	1	. . .	1 25				
Inside mule drivers,	2	. . .	1 25				
Weigh-master, . . .	1	. . .	1 25				
Dumpers, ...	1	. . .	1 10				
Mining overseers, .	1	. . .	3 00				

CHARACTERISTICS OF COLLIERY.—Our coal is principally used for steam and gas, and is somewhat celebrated for gas purposes.

WAMPUM COAL COMPANY.

LYCOMING COUNTY.

McIntyre Colliery.

The McIntyre Coal Company, Elmira, Chemung county, N. Y.

Mine located in Lycoming county, Pa.

Quantity of tons and value in dollars of annual product, 208,701$\frac{1100}{2000}$ tons of 2,000 lbs.; value $417,403 10.

Whole number of persons employed, 430.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	280	. . .	. . . .	. . . .	. .	280	
Outside laborers, . .	12	4	$1 42	81c. to $1 00	10	280	
Inside laborers, . .	10	32	$1 62 to 2 03	81c. to 1 01	. . .	280	
Outside mechanics, .	12	. . .	1 62 to 2 45	. . . .	. . .	300	
Outside mule drivers,	12	. . .	1 62	. . . .	. . .	280	
Inside mule drivers,	26	. . .	1 62	. . . .	. . .	280	
Weigh-master, . . .	2	. .	1 58	. . . .	. . .	280	
Dumpers, ...	10	. . .	1 42	. . . .	. . .	280	
Slate-pickers, ...	18	. . .	1 25 to 1 42	. . . .	. . .	280	
Mining overseers, . .	2						
Civil engineers, . .	1						
Stable men, ...	2	. . .	1 51				

WM. L. KINGMAN,
Treasurer.

ELMIRA, N. Y.

MERCER COUNTY.

Oakland.

Oakland Coal Company, Sharpsville, Mercer county, Pa.

Mine located in Hickory township, Mercer county.

Quantity of tons and value in dollars of annual product, 30,000 tons; $59,421 01.

Whole number of persons employed, average about 63.

Amount of capital employed in business, $40,000.

Amount paid annually for wages of employés, $30,224 12.

Amount paid for materials used in business, $8,397 09.

Transportation paid, $4,393 27.

Royalties and taxes, $3,956 35.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	48	2	$1 86	. . .	8 to 10		
Miners on wages,	. . .	. . .	1 75	. . .	8 to 10	. . .	Occasional.
Outside laborers,	2	. . .	1 25	. . .	10		
Inside laborers,	1	2	1 56	$1 00	10		
Outside mechanics,	1	. . .	2 25	. . .	10		
Inside mechanics,	1	. . .	2 00	. . .	10		
Inside mule drivers,	1	2	1 75	1 12½	10		
Weigh-master,	1	. . .	1 75	. . .	10		
Dumpers,	1	. . .	1 25	. . .	10		
Mining overseers,	1	. . .	4 00	. . .	12		
Civil engineers,	. . .	. . .	. . .	. . .	. . .	. . .	This service is rendered by manager and mining boss.
Engineer,	1	. . .	2 70	. . .	12		
Assistant engineer,	1	. . .	1 46	. . .	12		

REMARKS.—The coal trade at this point—Sharpsville—for the year 1876 amounted to 230,000 tons, shipped from the mines to Sharpsville, for use here and distribution on the lakes. An additional amount was sold at the mines, say 5 per cent. As compared with 1871, it is a falling off of 125,000 tons. The business was very much depressed during the entire year, and the total amount, as stated, was only reached by a reduction of 25 to 30 cents per ton from the price of 1875, and no reduction on labor, and but little on freights and material to compensate for the reduction.

The trade of this season starts with a still further reduction of from 10 to 15 cents per ton, all of which the operator has to stand.

The Oakland mine is a shaft, 130 feet in depth; large air shaft, with stairs and air-way, and all the latest appliances used in mining in this district. The coal is known as "Block coal," and is the finest in the country for use in blast furnaces, in the raw state. The nine furnaces at Sharpsville make a specialty of making "Bessemer Pig Iron" from this coal, and others of like quality here, and lake ores.

OAKLAND COAL COMPANY,
Per WALTER PIERCE, *Manager.*

Neshannock Coal Works.

J. Phillips & Co., Neshannock, Mercer county.

Mine located in Mercer county.

Quantity of tons, and value in dollars, of annual product, 25,553 tons; $51,706.

Whole number of persons employed, 101.

Amount paid annually for wages of employés, $32,058.

Amount paid for materials used in business, $10,877.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	80	5	$2 00	$ 75	10	160	
Outside laborers, . .	4	. . .	1 37				
Outside mechanics, .	2	. . .	2 00				
Inside mechanics, .	1	. . .	2 12				
Inside mule drivers,	6	. . .	1 70				
Weigh-master, . . .	1	. . .	2 00				
Mining overseers, .	1	. . .	4 00	. . .	. . .	300	
Civil engineers, . .	. . .	. . .	. . .	. . .	. . .	365	
Book-keeper, ...	1	. . .	2 33	. . .	. . .	365	

REMARKS.—This mine, owing to the depression of the coal trade, has been working very irregular, and is about mined out.

J. PHILLIPS & CO.,
Per L.

Forker Bank.

J. Forker & Co., Sharon, Mercer county.

Mine located in Hickory township, Mercer county.

Quantity of tons, and value in dollars, of annual product, 21,770 tons @$1 90—$41,363.

Whole number of persons employed, 56.

Amount paid for nine months, $25,017.

Amount paid for materials used in business, $1,090.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	40	12	$2 25	$1 20	10	175	
Outside laborers, . .	4	. . .	1 50	. . .	. . .	175	
Inside laborers, . .	2	. . .	1 87	. . .	. . .	175	
Outside mechanics, .	4	. . .	2 25	. . .	. .	175	
Inside mule drivers,	1	. . .	2 00	. . .	. . .	175	
Weigh-master, . . .	1	. . .	2 00	. . .	. . .	235	
Mining overseers, .	1	. . .	4 00	. . .	. . .	225	
Clerk, ...	1	. . .	2 50	. . .	. . .	234	
Manager, ...	1	. . .	4 00	. . .	. . .	225	

REMARKS.—The coal being exhausted, this mine was abandoned the last of September, 1877.

J. FORKER & CO.,
Per HOSACK.

Hickory Mine.

Spearman, Ulp & Co., Sharon, Mercer county.

Mine located in Hickory township, Mercer county.

Quantity of tons and value in dollars of annual product, 24,584 tons—value, $44,251 20.

Whole number of persons employed, 80.

Amount of capital employed in business, $25,000.

Amount paid annually for wages of employés, $29,565 80.

Amount paid for materials used in business, $6,685 40.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	59	10	. . .	$0 55	8	247	
Miners on wages	. . .	. . .	$1 75				
Outside laborers,	. . .	. . .	1 30	. . .	. . .	247	
Inside laborers,	. . .	.	1 40				
Outside mechanics,	1	. . .	2 00	. . .	. . .	247	
Inside mechanics,	1	. . .	1 85	. . .	. . .	247	
Inside mule-drivers,	4	4	1 50	1 50	. . .	247	
Weigh-master,	1	. .	1 50	. . .	. . .	313	
Dumpers,	1	. . .	1 30	. . .	. . .	247	
Mining overseers,	1	. . .	2 85	. . .	. . .	313	
Engineers,	2	. . .	2 00	. . .	. . .	313	

CHARACTERISTICS OF COLLIERY.—The coal produced from this mine is known as the block or splint coal, and being used in blast furnaces without coking, making a very fine quality of iron. The mine is opened with a shaft 106 feet deep. The coal is transported over the Sharpsville Railroad, to connect with the Erie and Pittsburgh Railroad, at Sharpsville, Pa.

The business has for the last year been very dull, owing to the low price of iron, and the depression in all manufacturing enterprises throughout the United States.

SPEARMAN, ULP & CO.

Strawbridge Bank.

Henry Bomback, Sharon, Mercer county.

Mine located in Hickory township, Mercer county.

Quantity of tons and value in dollars of annual product, 1,000 tons; $1 90 per ton—$1,900.

Whole number of persons employed, 7 miners.

Amount of capital employed in business, $250.

Amount paid annually for wages of employés, $1,185.

Amount paid for materials used in business, $500.

Number of men, 7; number of boys, 1; daily wages paid boys, $1; hours worked per day, 10; days in operation during year, 300.

CHARACTERISTICS OF COLLIERY.—An old bank; coal all used at home; 18 to 24 inches in thickness; removing the pillars.

HENRY BOMBACK.

Mt. Pleasant.

Kimberly & Filer, Sharon, Mercer county.

Mine located in Mercer county.

Quantity of tons and value in dollars of annual product, 30,548$\frac{1700}{2000}$ tons; $58,577 70.

Whole number of persons employed, 101.

Amount of capital employed in business, $36,000.

Amount paid annually for wages of employés, $31,745 31.

Amount paid for materials used in business, $2,192 50.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages,	77	...	$1 50	...	...	202	
Outside laborers,	5	...	1 25	...	...	202	
Inside laborers,	3	...	1 25	...	...	202	
Outside mechanics,	4	...	2 00	...	...	202	
Inside mechanics,	4	...	2 00	...	...	202	
Inside mule drivers,	4	...	1 75	...	...	202	
Weigh-master,	1	...	2 00	...	...	202	
Dumpers,	2	...	1 40	...	...	202	
Mining overseers,	1	...	4 00	...	...	202	

KIMBERLY & FILER,
By E. N. OHL, *Clerk.*

Pardoe Mine. Barnes' Mine.

Mercer Mining and Manufacturing Company, Pardoe, Mercer county.

Mine located in Mercer and Butler counties.

Quantity of tons and value in dollars of annual product, about 125,000 tons all told, (includes slack.)

Whole number of persons employed, average, 200.

Amount of capital employed in business, $200,000.

Amount paid annually for wages of employés, $110,000.

Amount paid for materials used in business, $12,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	Average 120						
Miners on wages, . .	. . . .	5	$1 60	60c.	9	200	
Outside laborers, . .	10	2	1 25	50c.	10	200	
Inside laborers, . .	4	4	1 60	$1 20	10	200	
Outside mule drivers, (included above,) .	1	4	1 30	1 10			
Inside mule drivers,	4	8	1 70	1 60	10	200	
Weigh-masters, . .	2	. . .	2 00	. . .	10		
Dumpers, ...	4	1	1 25	65c.	10		
Mining overseers, .	2	. . .	3 00	. . .	10		
Civil engineers, . .	1	. . .	5 00	. . .	. . .		

In summer, one man to fire ventilating furnace.

REMARKS.—Our trade is quite dull, owing to the severe competition at all points, and the great falling off in the iron manufacture, which has thrown a large quantity of coal on the general market. Our best market is Cleveland, and we could do much better there if it were not for the tax of 3c. per ton. The Ohio coal does not pay this tax; and, in some very close bidding, we lost contracts, owing to this fact. Our vein of coal is known as the "Clarion seam," at Pardoe, and is 4′ 10″ thick; at Barnes,' we work the "Kittanning coal," 3′ 3″ thick, which is 130 feet above the ferriferous limestone between. On nearly all coal mined, we pay royalty, not owning it in "fee."

We have all our miners sign contracts, and hold 10 per cent. forfeiture money in case of strike. We require 30 days' notice to be given before quitting, and the company give the same notice before changing the price of mining. The contracts run for one year, and we pay interest at 6 per cent. on all money retained. Men are generally Swedes and Germans.

F. H. OLIPHANT, Junior,
Superintendent.

Bethel Mines.

Bethel Coal Company, Sharon, Mercer county, Pennsylvania.

Mine located in Hickory township, Mercer county.

Quantity of tons, and value in dollars, of annual product, 23,450 net tons; value, $44,555.

Whole number of persons employed, 165, or about $186 each, yearly, wages.

Amount of capital employed in business, $140,000.

Amount paid annually for wages of employés, $30,700.

Amount paid for materials used in business, $9,500, leaving $3,355 profit and interest on capital.

BETHEL COAL COMPANY REPORT.

W. HAYES GRIER, Esq.,
Chief of the Bureau of Industrial Statistics:

Dear Sir: In compliance with your request, we have filled the blanks, and herewith return the circular sent us, asking for mining statistics pertaining to the Bethel Coal Company.

In your circular, you say: "It is the desire of this bureau, that each operator or manufacturer, in making out his report, should use the page set apart for remarks, giving such information in relation to the trade as would be of interest to the public. If trade is brisk or dull, give your ideas of the cause. Do not hesitate to express your opinion."

To say that "trade," with us, is "dull, would not adequately express the situation. It is *ruined.*

In 1868, our pay-roll aggregated $12,000 to $13,000 per month. Our pay, *now*, is from $1,000 to $2,000 per month.

In 1868, our miners earned from $80 to $100 per month. *Now*, owing to scarcity of work, they are not averaging over $20 to $30 per month; or, as per report, about $186 yearly wages.

In 1868, Bethel was a prosperous village, and every one was employed that wanted to work. *Now*, many dwellings are empty, and all are going to wreck.

In 1868, our miners were a prosperous people, their families well clothed, many of them owning houses and lots, and having their own horses and wagons to go to market or church. *Now*, through enforced idleness, they have nothing but poverty, rags, and squalid misery. Their personal property, and, finally, their homes had to be sold to buy bread.

The Cause.

We now proceed, in accordance with your request, to give you our "ideas" of the causes of this ruin.

In taking a survey of our country, we perceive that all other branches of industry are suffering, some to a greater degree than ours, whilst others are absolutely wiped out; therefore, it is evident, that the causes, whatever they may be, are not confined to our branch of industry alone, but are operating throughout the whole country, upon all branches of productive industry. After having given this subject careful investigation, we have come to the conclusion that the following are the principal causes of our present troubles:

1st. The enormous contraction of the volume of currency by the Government, for the avowed purpose of *resuming* specie payments.

2d. The high rates of interest for the use of money, which are now prevailing, compelling the producer to pay unjust tribute to the money-lender.

3d. The discrimination against the producer, and in favor of the non-producer, by the exemption of our national bonds from taxation.

The Source of Wealth.

There is but one source of national wealth, and that is LABOR. Labor employed in productive industry is the only source of national wealth; therefore that nation whose laborers are fully employed is on the only highway to prosperity, and that nation whose laborers are unemployed, is on the road to national bankruptcy. These propositions are simply axioms. so evidently true as to require no proof, and if constantly borne in mind they will inevitably lead us to the true solution of our present national, industrial, and commercial disaster.

By reference to the report of Treasurer Spinner, in 1865, it will be seen that our circulation, including loan certificates, compound currency notes, and other certificates of indebtedness, which took the place of currency, as bank reserves, amounted then to $2,103,865,579. By reference to the report of Comptroller Knox, made July 1, 1877, it will be seen that our present circulation is but $675,384,579. There has, therefore, been a contraction of $1,428,481,000. And when we take into account the fact that by thus contracting the volume of our currency, we have, in the same ratio, contracted the volume of our products, by contracting the wealth producing power of the nation, we need not wonder at the disastrous results now apparent on every hand. One of our ablest writers and clearest thinkers (Henry Carey Baird) says: "The enforced idleness of the people of the United States, with its steam and water powers and machinery, may be safely estimated as equal to $15,000,000 per day, or 33½ cents *per capita* of the population, say $4,500,000,000 per annum. This is a measure of the privation, the suffering, and the bankruptcies which the people are now enduring for the sake of a politico-economic theory. The harmony of all true interests, those of the rich and poor alike, being well nigh destroyed, the reflex action of this suffering is now being severely felt by merchants, manufacturers, railroad and coal companies, real estate owners, banks, bankers, and other capitalists, as well as by the Government itself."

The "enforced idleness" above referred to, is the necessary result of the withdrawal of the means wherewith to employ and pay the laborer. This is clearly demonstrated not only by existing facts, but by the facts of past history. Why did our national legislators ignore these facts when passing the Sherman resumption law? History, in solemn warning, pointing to England, bade them, "Beware!" Here is what she further said to them.

Coin Redemption a Delusion.

The delusive character of paper currency, promising redemption in coin, was made fully apparent in England at the beginning of the mighty struggle with Napoleon. The banks failed, and their paper was worthless

Gold and silver fled the realm, and England was left to perish. If no further system of currency could have been adopted, she would have been blotted out. But the issuance of paper money, based upon the wealth of the realm, saved her. After passing through a quarter of a century of unexampled prosperity, by the free use of that paper money in the development of her resources, at length she decided, in 1819, that she would resume specie payments in 1823. In effecting this, she contracted the volume of her currency only $102,180,160. Note the result, as described by English historians. Sir Archibald Allison says, in his "History of Europe," page 144:

"The effects of this extraordinary legislation were soon apparent. The industry of the nation was speedily congealed as a flowing stream is by the severity of an arctic winter. The alarm became as universal and widespread as confidence and activity had recently been. The country bankers who had advanced largely on stocks of goods imported, refused to continue their support to their customers, and they were forced to bring their stocks into the market. Prices, in consequence, fell rapidly; that of cotton in particular, sank in three months to half its former level.

"The effects of this sudden and prodigious contraction of the currency were soon apparent, and they rendered the next three years a period of ceaseless distress and suffering in the British Islands. The effect upon prices was immediate and appalling. They declined in general, within six months, to half their former amount, and remained at that low level for the next three years. Distress was universal in the latter months of 1819, and that distrust and discouragement were felt in all branches of industry, which are at once the forerunner and the cause of disaster."

The following extract is from Doubleday's Financial, Monetary, and Statistical History of England, page 238:

"We have already seen the fall in prices produced by the immense narrowing of the paper circulation. The distress, ruin, and bankruptcy which now took place were universal, affecting the great interests both of land and trade; but especially among landlords, whose estates were burthened by mortgages, settlements, legacies, and the like, the effects were most marked, and out of the ordinary course. In hundreds of cases, from the tremendous reduction in the price of land which now took place, the estates barely sold for as much as would pay off the mortgages, and the owners were stripped of all, and made beggars."

Money Up—Labor Down.

Mr. Baring, one of the ablest statesmen England ever produced, made a speech in Parliament, in opposition to this cruel measure, in which he said:

"In looking at this question,"—that is, the facts growing out of the contraction of the currency—"it is material to show what is the state of the country in this, the sixth year of the peace. Petitions are coming in from all quarters, remonstrating against the state of suffering in which so many classes are involved, and none more than the agricultural class. When such is the state of the country, in the sixth year of peace, and when all the idle stories about overproduction, and under-consumption, and such-like trash, have been swept away, it is natural to inquire into the state of a country placed in a situation without a parallel in any other nation or time. No country ever before presented the continuance of so extraordinary a spectacle as that of living under a progressive increase in the value of money and decrease in the value of the productions of the people. It appears clear that from the operations of the currency, we have loaded ourselves not only with an immense public debt, but also with an increased debt between individual and individual, the weight of which continues to press upon the country, and to the continuance of which pressure no end can be seen."

How accurately these extracts from English history, of half a century ago, describe the present condition of this country! We are now suffering the same "distress and ruin" to which the English people were then subject, produced by the same cause. We have largely contracted the volume of our currency, and the "industry of the nation has been speedily congealed as a flowing stream is by the severity of an Arctic winter!" But if the contraction of only a little over one hundred millions produced such terrible results in England, what must be the final effect in this country, of a contraction of over fourteen hundred millions? We shudder to contemplate. We are now just beginning to witness the effects of this enormous contraction of the currency, and from thrice ten thousand sources; from every direction, come the same wails of suffering and distress, ruined industries, suffering people, mortgage foreclosures, bankruptcies, pauperism, crime, DEATH! Such are the results of the contraction policy of the Government, thus far, as the journals of the land fully attest; then what must the sickening tales of horror be, when this cruel, wicked policy shall have been fully developed?

Bleeding to Death.

That these evils are the result of the contraction of the currency, is amply demonstrated by the statistics of this country, as well as the facts of history. To prove this, we submit below the last annual report of Dun, Barlow & Co., showing the list of commercial failures for several years past. It will be remembered that in 1866, Mr. McCulloch, (our then Minister of Finance,) reported that the English bankers desired us to *contract the volume of our currency*, as the only condition upon which they would sustain American credit. Truly a *modest* request, coming from the very men who had largely invested in Confederate bonds, and had thus aided the South in fitting up piratical craft to prey upon our commerce. But McCulloch, guided by the counsels of these enemies of free government, commenced a war upon the life of the nation, by the withdrawal of its life's blood, a thousand times more fatal than the iron-clad, piratical craft of the South, which those English bankers had constructed. McCulloch commenced his contraction policy in the latter part of 1866. Trace its disastrous results through succeeding years, as noted by Dun & Barlow, in their last annual report, made April, 1877:

Year.	Number.	Amount.	Average indebtedness.
1866, ...	632	$47,333,000	$74,894
1867, ...	2,386	86,218,000	36,134
1868, ...	3,608	63,774,000	24,452
1869, ...	2,799	75,054,000	26,814
1870, ...	3,551	88,242,000	24,849
1871, ...	2,915	85,252,000	29,245
1872, ...	4,069	121,056,000	29,750
1873, ...	5,183	228,499,000	44,085
1874, ...	5,830	155,239,000	26,627
1875, ...	7,740	201,060,353	25,978
1876, ...	9,092	191,117,786	21,020
1877, (3 months,) .	2,869	54,538,074	19,010

It will be observed that this report only embraces the list of large commercial failures, that is, the failure of large commercial firms, and men who had been doing a large business; for the least average indebtedness amounts to $19,010; therefore, this report takes no cognizance of the tens of thousands of lesser failures all over the land. To note them would require volumes. But observe how they increase as years increase, showing the fatal effect on business men as the screws were tightened. In confirmation of what we have asserted, we might adduce whole pages of other statistics; for the industrial and commercial statistics of the nation all teach the same sad lesson, that we are fast approaching individual and national bankruptcy.

Look at France.

Let us, for a moment, compare our present condition with that of France. Like this nation, France has recently passed through exhausting wars. But less fortunate than we, she was beaten, and was compelled to surrender two of her richest provinces—Alsace and Lorraine—and, also, compelled to pay $1,100,000,000 as indemnity to Germany. These being the facts, one would reasonably suppose that her industrial and commercial condition would be much worse than ours. Let us see:

France has now a population of 33,389,107. By the last report of her Minister of Finance, it appears that she has in circulation $1,800,000,000, and a coin resource of $434,500,000, making her total circulation $2,234,900,000, or about $66 per capita. The rate of discount is at present two per cent. per annum, and the loans and discounts of her business men amount to $107,700,000. The Government has a coin issue of $434,500,000.

Then at this Picture!

The United States has a population of 45,000,000, with a circulation of $675,384,579, or about $15 per capita. The rates of discount average ten per cent. per annum. The loans and discounts of the National Banks alone, to our business men, amount to the enormous sum of $931,300,000, nearly one third more than the entire circulation! After heavy sales of bonds during the past year, the coin reserve is now only $10,754,037.

The Lesson Taught.

The above statistics are copied from the official reports of the two Governments, and can be implicitly relied upon. Now contrast them. What a lesson is herein taught! France, utterly routed on the field of battle; her capital a heap of ruins; despoiled of her richest possessions; yet, almost as if by magic, she has arisen from the dust of her ruins, and is, to-day, the strongest nation, financially, on the face of the earth. The United States emerged from her great war the conqueror; the wheels of her industries were all in motion; with vast possessions, great agricultural and mineral resources, it seemed as though she was destined to a degree of grandeur unparalleled in the world's history; yet the nation and people are to-day trembling upon the verge of bankruptcy. What secret influences have led to these opposite destinies? What magic wand has touched "sunny France," causing her hills and valleys to teem with plenty, and what evil genius has blasted our fair Columbia, and caused her to bring forth thorns and thistles? In the preceding financial reports of the two nations, you have the answer to these questions—LABOR IS THE SOURCE OF ALL WEALTH.

The Contrast.

France, with her abundant volume of money, and consequently low rates of interest, has kept her people employed in productive industry. The United States, with her contracted and ever-contracting volume of currency, and consequent high rates of interest, has ruined her productive industries, and made beggars and tramps of her laborers—the real and only wealth producers.

The manufacturers and producers of France, by an ample volume of currency, have been enabled to transact their business with cash. The manufacturers and producers of the United States, for want of cash, have been compelled to employ bank credit, at enormous rates of interest, as the nine hundred and thirty-one millions of their paper held by National Banks alone amply attest.

France, by her wise policy, has kept her producers of wealth abundantly supplied with money. The United States, by her insane financial policy, has driven her producers of wealth into the clutches of Shylocks.

The industries of France are prosperous, those of the United States are ruined.

What is it all for?

But let us for a moment inquire what is the object to be accomplished by this great contraction of the currency? Why are our people thus compelled to pass through the "Red Sea?" We are told that this is necessary in order that we may arrive at a specie basis. Is this not the same fraudulent system that so frequently deranged our finances in the past? And were we not compelled to abandon it, in order to save the life of the nation? It has been thoroughly tried by other nations, and, in every instance, it has resulted in disaster. Then why should the nation be called upon to surrender that which saved its life in the hour of peril, in order to accept that which has always proven delusive? Yet if we desired to return to this barbarous system ever so much, it must be apparent to every sane, thinking man, who has given this subject any thought, that the attempt, at present or in the near future, could only end in disaster.

The Reason Why.

Europe now holds over one thousand millions of our bonds. There is no axiom upon which political economists are more thoroughly agreed, than the following:

"Any debtor nation, which bases its currency, and consequently its production and commerce, upon specie, exists financially, productively, and commercially, on the sufferance of its creditors."

This is well demonstrated by Mr. Charles Sears, one of our best political economists, who says:

"Independently of circumstances, and on its merits, the 'specie basis' hypothesis is the most disorganizing element that ever obtained place in society, and its ghostly presentments ought to be laid, without benefit of clergy, whenever they show in daylight.

"On this hypothesis, our monetary, industrial, and commercial system constitute a huge pyramid or cone, standing upon its apex. Forty billions of property resting upon six billions of current production, which rests for its value, upon say seven hundred millions of currency, which, in turn for its value, rests upon two hundred and fifty millions of specie, which, so far as our possession of it is concerned, depends upon the interest and good-will of our rivals in industry, and haters of our political system."

What Grant Said.

Said President Grant, in his second inaugural message, of 1873: "A specie basis cannot be reached and maintained until our exports (exclusive of gold) pay for our imports, our interest due abroad, and other specie obligations." This, he tells us, can only be done by stimulating production, and bringing the balance of trade in our favor. These are but the plain teachings of common sense; for to attempt to force specie resumption while owing foreign creditors many times over the small amount of gold which we may be able to accumulate, would be suicidal folly. But when we take into account the facts, that whilst we only retain the small amount of gold which we may be able to obtain *by the sufferance* of those foreign creditors, and that those foreign creditors are our industrial competitors, and haters of our free government, which they have repeatedly attempted to destroy, the folly becomes absolutely amazing. This is worse than suicidal folly. It is placing a dagger in the hands of our enemy, wherewith to stab us.

Didn't Take Grant's Advice.

But our Government, instead of adopting the wise course then suggested by President Grant, which was to build up its credit by fostering the industries of the people, adopted just the opposite policy. It now presents to the world an amazing spectacle. A government of forty-five millions of industrious, intelligent people, with a vast area of wonderfully fertile land, rich in all the minerals known to civilization, and yet it depends not upon the development of these resources to sustain its credit, but depends upon a *syndicate of foreign bankers!* Have we so degenerated that there are no statesmen left in the land? And are these foreign bankers called in as our guardians? Or have we, through the imbecility or knavery of our government officials, become the bond-servants of this foreign syndicate, the bonds which they have bought being their legal title to the American people, as their "servants forever?" Whatever may have been the cause of the employment of this syndicate, to sell our bonds, whether caused by imbecility or knavery, the result to the people will be the same. Those bonds are the legal indentures, by which the producers of this nation are bound to the moneyed kings of Europe for ages to come.

Our bonds have been, and are being sold, through this syndicate, ostensibly for the purpose of procuring gold wherewith to resume specie payments. Have we gotten, or are we getting the gold? Let us see. Said Mr. Boutwell, in a speech in the United States Senate, January 22, 1874:

"When negotiations were going on in London for the sale of the largest amount of United States bonds that have ever been sold there at one time, it was foreseen by the Bank of England that a quantity of coin would accumulate as the proceeds of these bonds to the credit of the Government of the United States. As a matter of fact, there was an accumulation of about $21,000,000. The Bank of England foreseeing that there would be an accumulation of coin to the credit of the United States which might be taken away bodily in specie, gave notice to the officers of the Treasury department of the United States, that the power of that institution would be arrayed against the whole proceeding unless we gave a pledge that the coin should not be removed, and that we would re-invest it in the bonds of the United States as they were offered in the markets of London. We were compelled to do it.

"There is another fact, known to all. We recovered at Geneva an award against Great Britain of $15,500,000. When this claim was maturing, the banking and commercial classes of Great Britain induced the Government to interpose, and by diplomatic arrangements through the State department here, operating upon the Treasury department, secured the transfer of securities, and thus avoided the transfer of coin. In the presence of these facts, it is to be assumed for a moment that we can go into the markets of the world and purchase coin with which we can redeem one, two, three, or four hundred millions outstanding legal tender notes."

Confirmation.

In confirmation of the above, we have the following from Professor Bonamy Price, the distinguished professor of political economy of Oxford College, in England. In a lecture delivered to his class last winter, he said:

"And I read in one of the journals of New York to-day, that in the great State of Pennsylvania, in the coal regions—the very center of wealth, the very productive force of modern times—employment cannot be obtained; there is no food for the women, laborers' families are starving, and every kind of moral and social disorder is looming into prospect. Gentlemen, that is the great thing which I propose shall occupy our attention to-night. How comes it to pass that in America, teeming with every powerful resource for making men worthy and great, that these fearful calamities are in prospect, and with the fearful reality that is detailed in that little American book?

"Now, then, gentlemen, let us get to these mechanics who go to soup kitchens, who have no employment. Let us go to this country, which ought to be the receiver of emigrants with open arms, but which is unable to employ them. They must go back to Europe, from the land of unparalleled resources, to old European countries, which can still feed them better. This is a fact of a most startling order."

Dry Goods—Not Gold.

He then goes on boldly to assert that of the thousands of millions of dollars of our national and other securities, which we have shipped to Europe since 1860, we have not obtained money but goods—not sold them for cash—but traded them away in barter. He then says:

"Mind, loans always come to countries, not in money but in goods. Always. Do you suppose if the nation borrows $20,000,000 or $30,000,000, that the foreigner sends $20,000,000 or $30,000,000 of paper notes or sovereigns? What you borrow is goods, and of course you have a jolly time over goods, and the gap you make yourself is not perceived. All spendthrifts—that is just what they do. Sufficient for the day is the evil thereof. You have been living upon loans, and loans and loans of goods to fill up the gap of your production, and then when you can get no more you are in a very bad way. Your laborers must go home. Then, as the paper said one morning, the people are starving, and God knows what they will do."

Then is it so, that after all the millions of bonds we have sold to Europe, and all the millions we have paid the syndicate as commission for selling them, we have not been paid in gold? Certainly it is, for after all the hundreds of millions of our bonds sold to European bankers, we have now only the meager sum of ten millions. Not one-third of one year's product of our own mines, and that we hold only at the sufferance of our creditors. Professor Price pleasantly tells us what we received for our bonds, we received goods! The manufactured products of English workshops! We have been selling our bonds and paying gold interest thereon, and have been receiving our pay for them in English manufactured products, whilst our own factories have been standing idle! Through the operations of this syndicate the producers of this land have been made "hewers of wood and drawers of water," to the money lords of Europe, and our industries left to perish. In view of these facts, is it to be wondered at, that our own industries are being wiped out? Had our bonds been subject to taxation, in accordance with the requirements of justice, they never could have been exported, and the interest paid to our own people would have helped to swell the volume of our products. The English consol never leaves the realm, because subject to taxation. The interest goes to English people, and helps to sustain their industries. The interest on our bonds is a constant drain upon our industries, and goes to sustain our competitors in trade. A more ingenious system to make this nation a mere dependency upon England, could not be devised.

Sustained by Facts.

These are our "ideas," sustained not only by facts transpiring within our own knowledge, but by the concurrent facts of history.

From the foregoing, then, is it not very evident, that if we desire to resume specie payments, we must first recall our bonds from Europe? We know that those English bankers hate our free institutions. Our Government, based upon the equality of man, is to them a standing reproach! Can we, *dare* we, confide our industrial and commercial prosperity to their keeping? Common sense says, No! and we say, amen!

Very truly yours,
BETHEL COAL COMPANY.
Per E. A. WHEELER, *Secretary.*

Snyder Coal Mine.

Snyder Coal Company, Sharon, Mercer county.

Mine located in Mercer county.

Quantity of tons and value in dollars of annual product, 46,376 $\frac{900}{2000}$ tons; $88,177 90.

Whole number of persons employed, 95.

Amount of capital employed in business, $20,000.

Amount paid annually for wages of employés, $40,794 36.

Amount paid for materials used in business, $1,795.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	65	. . .	$1 50	. . .	10	280	
Outside laborers, . .	10	. . .	1 25	. . .	10	280	
Inside laborers, . . .	5	. . .	1 25	. . .	10	280	
Outside mechanics, .	1	. . .	2 00	. . .	10	280	
Inside mechanics, .	4	. . .	2 00	. . .	12	280	
Inside mule drivers,	6	. . .	1 75	. . .	10	280	
Weigh-master, . . .	1	. . .	2 00	. . .	10	280	
Dumpers, ...	2	. . .	1 40	. . .	10	280	
Mining overseers, .	1	. . .	4 00	. . .	10	280	

SNYDER COAL CO.,
By E. N. OHL, *Clerk.*

Keel Ridge, No. 3.

Filer & Co., Sharon, Mercer county.

Mine located in Mercer county.

Quantity of tons and value in dollars of annual product, 29,455 $\frac{900}{2000}$ tons; $57,080 90.

Whole number of persons employed, 105.

Amount of capital employed in business, $27,000.

Amount paid annually for wages of employés, $32,050 95.

Amount paid for materials used in business, $2,473 20.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	70	. . .	$1 50	. . .	. . .	200	
Outside laborers, . .	10	. .	1 25	. . .	. . .	200	
Inside laborers, . .	8	. . .	1 25	. . .	. . .	200	
Outside mechanics, .	3	. . .	2 00	. . .	. . .	200	
Inside mechanics, .	4	. . .	2 00	. . .	. . .	200	
Inside mule drivers,	6	. . .	1 75	. . .	. . .	200	
Weigh-master, . . .	2	. . .	2 00	. . .	. . .	200	
Dumpers, ...	1	. . .	1 40	. . .	. . .	200	
Mining overseers, .	1	. . .	4 00	. . .	. . .	200	

FILER & CO.,
By E. N. OHL, *Clerk.*

McKEAN COUNTY.

Buffalo Coal Company's Mine.

The Buffalo Coal Company, Clermont, McKean county.

Mine located in McKean county.

Quantity of tons, and value in dollars, of annual product, 81,770 tons, worth about $120,000.

Whole number of persons employed, 175 to 200.

Amount of capital employed in business: Can't give information.

Amount paid annually for wages of employés, $93,744 56.

Amount paid for materials used in business: Don't know; our books don't show.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract,	150	. . .	. . .	. . . . .	8	300	About $2 15, average.
Outside laborers,	2	. . .	$1 25	. . . . .	8		
Inside laborers,	2	. . .	1 25	. . . . .	8		
Outside mechanics,	1	. . .	2 00	. . . . .	8		
Blacksmiths,	3	. . .	2 00	. . . . .	8		
Inside mule drivers,	9	. . .	1 50	. . . . .	8		
Weigh-master,	1	. . .	1 25	. . . . .	8		
Dumpers,	5 or 6	. . .	1 25	. . . . .	8		
Slate-pickers,	6 or 8	. . .	1 25	. . . . .	8		
Mining overseers,	2	. . .	3 00	. . . . .	8		
Civil engineers,	1	. . .					
Door boys, &c.,	. . .	6	. . .	50c to 75c			

Characteristics of Colliery.—Drift; natural drainage; ventilated by shafts, with fire at foot; no particular difference from the rest of the mines in north-western Pennsylvania.

G. MACFARLANE,
Engineer Buffalo Coal Company.

Buttsville Coal Mines.

J. E. Butts, junior, Agent; Stephen Bowen, Trustee, Alton, McKean county.

Mine located in Lafayette, McKean county.

Quantity of tons, and value in dollars, of annual product, 31,829 tons; value, $77,980.

Whole number of persons employed, 107.

Amount paid annually for wages of employés, $49,591 18.

Amount paid for materials used in business, $5,388 82.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	75	. . .	. . .	. . .	8	290	
Miners on wages, . .	5	. . .	$2 35				
Outside laborers, . .	8	. . .	1 50				
Inside laborers, . . .	6	. . .	1 55				
Outside mechanics, .	4	. . .	2 50				
Outside mule drivers,	. . .	4	. . .	$1 25			
Inside mule drivers,	. . .	9	. . .	1 37½			
Weigh-master, . .	1	. . .	2 00				
Dumpers, ...	2	. . .	1 50				
Slate pickers, ...	2	. . .	1 50				
Mining overseers, .	1	. . .	3 00				

SOMERSET COUNTY.

Keystone Mines.

Keystone Coal and Manufacturing Company, Keystone Junction, Somerset county.

Mine located in Somerset county.

Quantity of tons and value in dollars of annual product, 50,887 tons; estimated, $75,000.

Whole number of persons employed, 100.

Amount paid annually for wages of employés, $40,527.

Amount paid for materials used in business, $6,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	80	. . .	$2 00	. . .	8	250	
Outside laborers, . .	2	. . .	1 50	. . .	10		
Inside laborers, . .	3	. . .	1 50	. . .	10		
Outside mechanics, .	3	. . .	2 00	. . .	10		
Inside mule drivers,	6	. . .	1 50	. . .	10		
Weigh-master, . . .	1	. . .	2 00	. . .	10		
Dumpers, ...	4	. . .	1 50	. . .	10		
Mining overseers, .	1	. . .	3 50	. . .	10		

CHARACTERISTICS OF COLLIERY.—The coal produced from this colliery is a strong, free-burning coal, very free from impurities, and retaining its lumpy condition better than usual with bituminous coal; contains some sulphur, but less than the West Virginia and Ohio coals.

Trade is quite dull, owing to overproduction and the general business stagnation.

R. DE FRANCE,
Superintendent.

TIOGA COUNTY.

Blossburg Coal Company.

Blossburg Coal Company, Corning, Steuben county, New York.

Mine located in Tioga county, Pennsylvania.

Quantity of tons and value in dollars of annual product, 182,107 tons @ $1 50, $273,160 50.

Whole number of persons employed, 761.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés: Mining, $186,391 06; and for lumber, $35,714 83.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract,	363	80	$3 00	80c.	Ten hours per day.	230 days.	
Door tenders,	. . .	31	. . .	80c.			
Outside laborers,	26	3	1 40	80c.			
Inside laborers,	10	. . .	1 50	. . .			
Outside mechanics,	9	. . .	2 00	. . .			
Outside mule drivers,	1	3	2 00	80c.			
Inside mule drivers,	54	1	1 88	80c.			
Weigh-master,	2	2	2 25	80c.			
Dumpers,	26	. . .	1 40	. . .			
Slate pickers,	60	4	1 40	80c.			
Mining overseers,	2	. . .	3 50	. . .			
Civil engineers,	1	. . .	6 39	. . .			
Lumber and mill,	80	. . .	1 40	. . .			
Office,	3	. . .	3 00	. . .			

This company is coking a large amount of their coal—they being the first in the Blossburg coal region that have coked this coal to any great extent, and it bids fair to open a new field in that direction. I deem it of sufficient importance to note the progress in this report.

The Blossburg Coal Company have a block of sixteen bee-hive coke-ovens, and are erecting twenty-four more. The coal used in these ovens is taken from the market sales of the Bloss vein. The coke made in these ovens is bright, porus, strong, and remarkably free from sulphur and other impurities, and will compare favorably with any coke made in the State. It is now used in foundries, blast furnaces, glass factories, and all other purposes that coke is used for. Below will be found an analysis made by A. S. McCreath, chemist to State Geological Survey, showing this coke to be of first quality. The coal yields 64 per cent. coke. The Seymour vein yields excellent coke, and with the remarkable amount of 90 per cent. of fixed carbon.

Analysis of coke from the Blossburg Coal Company, at their mines, at Arnot, Pennsylvania, by the second State Geological Survey of Pennsylvania:

	Sample 1st. Bloss Vein.	Sample 2d. Seymour Vein.
Water at 225° F.,	0.240	0.220
Volatile matter,	0.572	0.625
Fixed carbon,	83.922	90.650
Sulphur,	0.679	0.850
Ash,	14.587	7.655
	100.000	100.000

Color of ash—Grey, red tinge.

H. D. V. PRATT,
Assistant President.

Fall Brook.

Fall Brook Coal Company, Watkins, Schuyler county, N. Y.

Mine located in Tioga county, Pa.

Quantity of tons and value in dollars of annual product, 68,381 tons; estimated value at mines, $102,000.

Whole number of persons employed, 117.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	65	...	$2 40	...	...	6 mos.	
Outside laborers,	2	...	1 35	...	...	6 mos.	
Inside laborers,	5	8	1 45	56c.	...	6 mos.	
Outside mechanics,	2	...	2 00	...	...	9 mos.	
Inside mechanics,	2	...	1 50	...	...	10 mos.	
Inside mule drivers,	15	...	1 50	...	...	7 mos.	
Weigh-master,	1	...	$70 per mo.	...	...	7 mos.	
Dumpers,	6	...	$1 35	...	...	7 mos.	
Slate-pickers,	10	...	1 38	...	...	7 mos.	
Mining overseers,	1	..	$125 per mo.	...	...	12 mos.	

A. HARDT,
Superintendent.

Antrim.

Fall Brook Coal Company, Watkins, Schuyler county, N. Y.

Mine located in Tioga county, Pa.

Quantity of tons and value in dollars of annual product, 121,515 gross tons; estimated value at mines, $181,000.

Whole number of persons employed, 307.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	220	. . .	$2 40	. . .	. . .	10 mos.	
Miners on wages, . .	2	. . .	1 80	. . .	. .	8 mos.	
Outside laborers, . .	6	. . .	1 50	. . .	. . .	5 mos.	
Inside laborers, . .	5	7	1 25	62c.	. . .	10 mos.	
Outside mechanics, .	7	. . .	1 75	. .	. . .	12 mos.	
Inside mechanics, .	5	. . .	1 50	. . .	. . .	12 mos.	
Inside mule drivers,	20	. . .	$1 35 to 1 00	. . .	. . .	10 mos.	
Weigh-master, . . .	2	. . .	$45 per mo.	. . .	. . .	10 mos.	
Dumpers, ...	5	. . .	$1 40	. . .	. . .	10 mos.	
Slate-pickers, ...	27	. . .	1 40	. . .	. . .	10 mos.	
Mining overseers, .	1	. . .	$125 per mo.	. . .	. . .	12 mos.	

A. HARDT,
Superintendent.

Morris Run.

The Morris Run Coal Mining Company, Morris Run, Tioga county.

Mine located in Hamilton township, Tioga county, Pa.

Total production for year 1876, 189,847 tons; estimated value at mine, $283,500.

Whole number of persons employed, 406.

Amount of capital employed in business: Capital stock, $100,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	236	. . .	$2 50				
Outside laborers, . .	36	. . .	$1 50				
Inside laborers, . .	14	. . .	2 00				
Outside mechanics, .	8	. . .	2 00				
Inside mechanics,	2	. . .	1 90				
Inside mule-drivers, men and boys, . .	75	. . .	1 40				
Weigh-master,	3	. . .	2 00				
Dumpers, ...	17	. . .	1 36				
Slate-pickers, ...	6	. . .	1 26				
Mining overseers, .	4	. . .	2 70				
Civil engineers, . .	. . .	. . .	. . .	. . .	. . .	. . .	This work done by sup't.
Blacksmiths, ...	5	. . .	2 00				

CHARACTERISTICS OF COLLIERY.—Our coal is semi-bituminous, reached by drifts, nearly level, are well ventilated, and well drained. The top is good, and in all respects the works are quite safe for miners and laborers.

DANIEL BEACH,
Treasurer.

New Developments and Explorations for Semi-Bituminous Coal in Tioga and Potter Counties.

From a report made by Andrew Sherwood, assistant geologist on the second geological survey of Pennsylvania, on some coal lands lying north of Pine creek and east of Long run, Tioga county, and lying between the north and west branches of Pine creek, Potter county, Pa., the following facts are subjoined:

Coal East of Long Run, at "The Barrens," Tioga Co., Pa.

The rocks of Tioga county are not horizontal, but lie in the form of great waves, known to geologists as anticlinals and synclinals, and extending across the county in a north-east and south-west course. All the coal is found in the synclinals, or depressions, which are therefore called *coal basins.* Some three or four of these depressions, (with their corresponding upheavals or anticlinals,) exist within the county, running parallel to each other; but it has been generally supposed, and often asserted, that one of them only, contained any workable coal—namely, the Blossburg basin. I shall proceed to demonstrate, however, in a manner which I think should satisfy the most incredulous, that at least one other of these basins contains workable coal beds of great value.

In the basin to which I refer, its center line enters Tioga from Bradford county near the south-east corner of Jackson township; crosses Tioga river at the mouth of Mill creek; Crooked creek, near Potter's hotel; and enters Potter county on the north side of Pine creek. At the line between Tioga and Rutland townships, this basin, on its highest knobs, catches the Millstone Grit, which is the foundation, or "bottom rock," of the true coal measures. This rock possesses very marked characters of its own, which serve to distinguish it from every other bed. At some points in this basin it contains pebbles of quartz; at others it is a hard, white, quartzose sandstone, excellent for the manufacture of glass, and having a very uniform thickness of about thirty feet. The hills have suffered such erosion from the waters of the Tioga, Mill creek, Crooked creek, and tributaries, that we do not meet with this rock again on going west until after we cross Norris brook, west of Niles valley, where it again caps the hills. But here the basin begins to widen and deepen to the south-west, so that on reaching "the barrens," at Long run, instead of capping the hills, it is low enough to be itself capped by over one hundred and ninety feet of coal measures.

The following Section, as ascertained by Mr. Baker, will show the order and thickness of the beds which constitute the one hundred and ninety feet:

Section of Coal Measures at "The Barrens."

No.		Feet.	Inches.
1.	Brownish quartzose sandstone, weathering white and mistaken by some for the Millstone grit; contains carbonized stems of plants; caps the mountain	20	
2.	Black slate, ...	2	
3.	Coal, ...	1	8
4.	Dark-colored shale, ...	8	4
5.	Coal, ...	1	
6.	Light and dark-colored shale, ...	3	3
7.	Coal, ...		11
8.	Dark sandy shale, with carbonized stems of plants, ...	7	
9.	Coal. Varies from 2½ feet to 5 feet 2 inches, ...	3	
10.	Dark colored shale, ...	10	
11.	Coal, ...	2	5
12.	Brownish, gray, and light-colored sandstone, ...	9	
13.	Dark-colored shale, ...	10	
14.	Coal, ...	4	
15.	Gray and light-colored sandstone, ...	4	
16.	Brownish and dark-colored clay shale, ...	6	
17.	Gray and light-colored sandstone, ...	9	
18.	Coal, ...		10
19.	Fire clay, ...	2	
20.	Dark-colored shale, ...	4	
21.	Coal, ...	1	9
22.	Fire clay, ...	1	9
23.	Coal, ...	1	9

No.		Feet.	Inches.
24.	Dark-colored shale,	18	
25.	Coal,		4
26.	Dark-colored shale,	12	10
27.	White sandstone,	1	2
28.	Black slate,	2	
29.	Coal,	4	8
30.	Fire clay,	2	
31.	Brownish sandstone, becoming a dark, sandy, slaty rock towards the top,	39	
32.	Millstone grit—a hard, white, quartzose sand-rock and conglomerate,	30	
	Total,	223	8

Here we have eleven coal beds, great and small, with an aggregate thickness of twenty-two feet and four inches. It is doubtful whether a greater number of coal beds can be found at any other place in the county.

Nos. 3, 5, and 7 are too thin to be considered of much importance. No 3 is known as the "Hurd vein," and was worked by Mr. Hurd a few years since, when it was thought to be the only coal in this neighborhood.

No. 9 varies in thickness from two feet and a half to five feet and two inches. It is now worked to the extent of five hundred tons annually. The coal is very pure, of a dull lustre, burns with a bright flame, and is not surpassed by any coal in Tioga county for domestic use. For some purposes in the working of steel, it is said to be taken in wagons a distance of seventy-five miles.

Mr. Baker says he dug through No. 11, but the shaft having become filled up, I did not see it.

No. 14 I saw and measured myself. A drift has been cut into it for a distance of several rods. Here appears to be a vein of coal four feet thick, of good quality, and underlying a large territory. Allowing a square yard to the ton, and a foot in thickness of the vein for wastage, it leaves us four million eight hundred and forty thousand tons on every one thousand acres.

No. 18 is too thin to be of any account.

Nos. 21 and 23 were cut through in a shaft, and the coal is said to be of good quality, but in order to work them the parting of fire clay, (which may be local,) would have to be mined also.

No. 29 I did not see, and therefore cannot vouch for its existence; but Mr. Baker claims to have drilled through it, and I see no reason to doubt the truth of his statement, for it is in the horizon of the three foot vein which I did see and measure in this same basin up the west branch of Pine creek. It ought to be tested at once, for if found to be of good quality, and to have the thickness which the drill would seem to indicate its value could not be questioned. I am confident it will be found, the only doubt being in regard to its real thickness and quality.

The value of these coal beds is greatly enhanced from the fact that they dip slightly to the north-west on the south side of "Benn gully;" while on the north side they dip slightly in the opposite direction, or to the south-east. This is most fortunate, as Benn gully is a branch of Long run, and offers a good opportunity of reaching them with a railroad.

Coal Between the North and West Branches of Pine Creek, Potter County, Pa.

The basin which I have described enters Potter county, as before stated, on the north side of Pine creek, and crosses the North Branch above Kilbourn's hotel, keeping on the north side of the West Branch. Two or three miles above the forks of Pine creek, are two considerable streams coming into the West Branch from the north—Whittemore run and Beech Flat brook. About two miles up Whittemore run, on the west side of the right hand fork, (or "draft," as it is here called,) I made the following observations:

Section of Coal Measures on the West Side of the Right Hand Draft of Whittemore Run.

No.		Feet.	Inches.
1.	Concealed, from the top of the mountain,	20	
2.	Coal, thickness unknown, but the smut of which is four feet thick,	4	
3.	Concealed,	39	
4.	Coal,	2	
5.	Concealed,	36	
6.	Coal, into which a drift has been carried fifty feet,	3	4
7.	Fire clay,	2	
8.	Concealed; probably brownish sandstone, becoming gray and dark-colored towards the top,	39	6
9.	Millstone grit—a coarse, hard, white and massive sand-rock, containing pebbles,	30	
	Total,	175	10

About three fourths of a mile from this spot, in an easterly direction, I saw a large spring cutting through No. 6. It is one of the finest natural exposures of coal in Northern Pennsylvania. The height of the hill at this point, above the coal, is one hundred and twelve feet.

One or two miles from this spring, in a westerly direction, and on the opposite side of the ridge, the Millstone grit is exposed, large masses of which have fallen from the parent ledge, and lie strewn over the surface below. Two of these many detached blocks are respectively one hundred and fifty feet, and one hundred and thirty feet in circumference, and about twenty-five feet in height, with small-sized trees growing atop, in the meager soil which has accumulated from the decay of ferns, mosses, etc., with which the rocks are carpeted. Altogether, the scene is in the highest degree picturesque.

On the east side of the right hand draft of Whittemore run, opposite the point where I made the foregoing section, I found the following beds:

Section of Coal Measures on the East Side of the Right Hand Draft of Whittemore Run.

No.		Feet.
1.	Concealed, from the top of the mountain,	99
2.	Coal,	3
3.	Fire clay, filled with roots, leaves of *Neuropteris*, etc.,	2
4.	Brownish sandstone, changing to a gray and dark, slaty, sandy rock towards the top,	40
5.	Millstone grit,	30
	Total,	174

No. 2 of the above is the same as No. 6, in the first section, and its outcrop between the two localities extends entirely around the head of the right hand draft of Whittemore run, a distance of about two miles and a half. Its outcrop is everywhere marked by large springs, some of which, at the fountain head, are nearly large enough to turn a mill. They are caused by a band of black clay-slate, the roof of the coal. The water, falling on the broad levels above, percolates through the various beds until it reaches this band of slate, which is impervious to water, when it is forced to seek an outlet at the surface. These springs are an infallible guide to the coal, while the slate forms an excellent roof.

In my judgment, the three foot vein in the two sections I have given, is the only coal here of much value. This vein appears to underlie a broad area of several thousand acres, and is practically inexhaustible, while the coal itself seems to be of a superior quality. Allowing five thousand acres, and one third for wastage, there would be over fifteen million tons of coal.

The same vein may be opened on the left hand draft of Whittemore run; also, at the head of Beech Flat brook; and these streams offer unexampled facilities for reaching this coal bed with a railroad; while the dip of the rocks is such that, if drifts are properly located, the coal can be worked to great advantage.

We kindled a fire with some of this coal, and the manner in which it burned, was all that could be desired. But while it is good for stoves and grates, it will, doubtless, be found to be peculiarly adapted for use in iron furnaces, as the coal occupying this horizon, especially farther west, in Ohio, is celebrated for its good properties in this connection.

Timber and other Resources.

The forests drained by the waters of Pine creek, ("the River of the Pines,") are too widely known to need any description here. Pine, hemlock, oak, chestnut, beech, birch, maple, basswood, ash, and cherry abound; while thousands of acres are untouched by the woodman's ax. In the tracts more particularly under consideration, the barrens are nearly destitute of timber, except some suitable for props in the coal mines. Not so the region lying between the north and west branches of Pine creek, where the hills are clothed with the primeval forest, and where are to be found as fine tracts of hemlock as the writer remembers to have seen. The proposed railroad will take this timber direct to some of the best lumber markets in the country; while with vast quantities of hemlock bark, tanneries will spring up, and a new and important industry be created.

For agricultural purposes, the valley of Pine creek is not up to the average, although it is destined to become a good grazing country. A few miles further north, and, indeed, through all the north-west towns of Tioga county, the land is good, the products of the dairy are extensive, and the region is one of great productiveness.

Inexhaustible beds of sandstone, for the manufacture of glass, exist on the barrens; while quarries of flagging and building stone may be opened and worked to advantage.

Conclusion.

I apprehend that the question of greatest importance is simply this: "Are the facts such as to warrant the construction of a railroad from some point in the State of New York to these coal beds?" To which I answer, that, in my judgment, they *are;* and I cannot see how it would be possible to arrive at any other conclusion, if we give the facts their just weight. I should still deem it a safe and profitable investment were there nothing in this country but the single three-foot vein, between the north and west branches of Pine creek. But when we come to consider the number, thickness, and quality of the beds, their geographical location, and the fine outlet provided by nature through the valley of Long run, all doubt would seem to be at an end. These coal fields have been strangely overlooked and underestimated heretofore; but I am confident that any one who will take the trouble to look them over carefully will not fail to be convinced of their importance.

In conclusion, it ought to be recorded that great credit is due to Mr. Henry Baker, the pioneer in the discovery of these coal beds, and who has labored with untiring zeal for their development. "Honor to whom honor is due."

VENANGO COUNTY.

Cranberry Coal Company.

Rowe & Co., New Bethlehem, Pennsylvania, owners; J. Kennedy, lessee, South Oil City, Venango county, Pennsylvania.

Mine located in Cranberry township, Venango county.

Quantity of tons and value in dollars of annual product:

700 tons per month, winter maximum, ...	4,200
350 tons per month, summer minimum, ...	8,100
	12,300

Mine by ton. Capacity of each man about two tons per day. Figure account in men employed.

Amount of capital employed in business, mines and six miles of railroad cost upward of $40,000.

Miners are paid $1 per ton for mining.

Amount paid for materials used in business, cost supplies for maintenance of mines and railroad, $1,500 per year. Outside expenses, including clerk hire, railroad men, $15 per day.

We make about 250 M of fire-brick annually. Cost, $10 per M; sell at $15 per M. Six to eight men employed.

CHARACTERISTICS OF COLLIERY.—Our mines, (or, rather the mines we lease,) have a vein of coal about 30 to 36 inches in thickness. Strong coal for heat, but some impregnated with sulphur. Owing to the discrimination of the A. V. railway, we are confined principally to a local market.

There are several mines located along the line of their road, and every car we sell makes one car less for that road to haul.

For instance, this company will receive coal 60 miles south of us, and haul it 30 miles north of us, for less money than they will haul our coal from here to the point 30 miles north.

JOHN W. SPENCER,
Business Manager.

WASHINGTON COUNTY.

Laurel Hill Mines.

W. P. Rend & Co., McDonald, Washington county.

Mine located in Washington county.

Quantity of tons and value in dollars of annual product, 31,428 tons; $31,428.

Whole number of persons employed, 83.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, $27,412 20.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	63	. . .	. . .	. . .	10	176½	
Outside laborers, . .	6	. . .	$1 50	. . .	10		
Inside laborers, . .	1	. . .	1 50	. .	10		
Inside mechanics, .	1	. . .	1 75	. . .	10		
Outside mule drivers,	2	. . .	1 50	. . .	10		
Inside mule drivers,	7	. . .	1 60	. . .	10		
Weigh-master, . . .	1	. . .	2 00	. . .	10		
Dumpers, ...	1	. . .	1 50	. . .	10		
Mining overseers, .	1	. . .	2 50	. . .	10		

HUGH KNOX,
Manager.

Midway Block Coal Company.

Jonah Taylor, Superintendent, and R. M. Ulp, Midway, Washington county.

Mine located in Midway, Washington county, Pa.

Quantity of tons and value in dollars of annual product, 21,000 tons; $21,000.

Whole number of persons employed, 71.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	50	. . .	. . .	. . .	10		
Outside laborers, . .	8	. . .	$1 25				
Inside laborers, . .	1	. . .	1 25				
Outside mechanics, .	2	. . .	1 50				
Inside mechanics, .	2	. . .	1 50				
Outside mule-drivers,	2	2	. . .	$1 00			
Inside mule-drivers,	4	4	. . .	1 25			
Weigh-master, . . .	1	. . .	1 50				
Mining overseers, .	1	. . .	3 00				

Allison's Mines.

Jonathan Allison, Washington, Washington county, Pa.

Mine located in Washington county.

Quantity in tons and value in dollars of annual product, 300,000 bushels, or 12,000 tons, at $1 per ton; $12,000.

Whole number of persons employed, 31.

Amount of capital employed in business, $12,000.

Amount paid annually for wages of employés, $8,475.

Amount paid for materials used in business, $1,275.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year,	REMARKS.
Miners on contract, .	2	. . .	$2 00	. . .	9	1 50	
Miners on wages, . .	20	. . .	*2 cts.				* Per bushel.
Outside laborers, . .	2	. . .	$1 25				
Outside mechanics, .	1	. . .	1 50				
Outside mule-drivers,	1	. . .	1 25				
Inside mule-drivers,	2	. . .	1 75				
Weigh-master, . . .	1	. . .	2 00				
Dumpers, ...	1	. . .	1 25				
Mining overseers, .	1	. . .	1 75				

One man employed at $2 per day the year round, at coal office, in Washington; one driver of team, at same place, at $1 50 per day; two hands employed on farm cropping on shares with my team.

JONATHAN ALLISON.

Alex. Moore, Locust Hill, Washington county.

Mine located in Washington county.

Quantity and value in dollars of annual product, 15,000 bushels; $600.

Whole number of persons employed, 2.

Amount paid annually for wages of employés, $350.

Miners on wages, 2; hours worked per day, 10.

REMARKS.—Trade was more brisk this year than last. I think this is owing to the cold winter and good roads for hauling.

ALEX. MOORE.

Amadore Coal Works.

R. Wintersgill, Fredericktown, Washington county, Pennsylvania.

Mine located in Washington county, Pennsylvania.

Quantity of tons and value in dollars of annual product, 380 tons; $300.

Whole number of persons employed, 2.

Miners on contract, 1; daily wages paid men, $1; hours worked per day, 8; days in operation during year, 150.

REMARKS.—Times are dull here from the fact that there is no labor. We have no manufactures of any kind. Our lands are underlaid with a seven-foot vein of coal, that is good for generating steam, gas, or coke, and it can be opened at a very slight expense. There is also choice limestone in large quantities; good sandstone, suitable for the manufacture of glass; fire clay, and beds of iron ore.

ROBERT WINTERSGILL.

South Side Coal Works.

William Maggs, guardian of Ellen G. Langford, Cannonsburg, Washington county.

Mine located in North Strabane, Washington county.

Quantity of tons and value in dollars of annual product, 23,245 bushels, at 3 cents per bushel.

Wages—2 miners on contract, at the rate of $1 50 per hundred bushels; wages paid boys, 75 cents per day; hours worked per day, from 8 to 10; days in operation during the year, 156.

CHARACTERISTICS OF COLLIERY.—Our mine is a drift, well ventilated and secured.

WILLIAM MAGGS.

Strabane Mines.

Boon Bros., Houstonville, Washington county.

Mine located in Washington county.

Quantity of tons and value in dollars of annual product, 850 tons of coal, valued at $725.

Whole number of persons employed, 5.

Amount of capital employed in business, $1,000.

Amount paid annually for wages of employés, $525.

Amount paid for materials used in business, $25.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	4	. . .	$1 25	. . .	8	100	
Miners on wages, . .	1	. . .	1 25	. . .	8	100	

CHARACTERISTICS OF COLLIERY.—Our mines were not worked to their full standard this last year, on account of the general depression in money matters.

We rely on the farmers for our trade, with an exceptional car shipped to Washington twice a month during our running season, 4 months in the year. The contraction of money has caused the coal to be contracted. Farmers do not burn half as much as they did six years ago.

BOON BROS.

S. W. Rogers.

S. W. Rogers, Beallsville, Washington county.

Mine located in Washington county.

Quantity of tons, and value in dollars, of annual product: I had mined, from December 1, 1875, to December, 1876, 10,000 bushels.

REMARKS.—I have sold the farm and mines; I am no longer engaged in the business.

S. W. ROGERS.

Evans Coal Works.

Canonsburgh, Washington county.

Mine located in Chartiers township.

Quantity of tons, 75,000 bushels, or 2,550 tons.

Amount paid for materials used in business, $1,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	6	. . .	$1 50	. . .	8	10 months.	
Outside mule drivers, Inside mule drivers,	1	. . .	1 50				

CHARACTERISTICS OF COLLIERY.—This colliery is a drift; use no engine; the vein is four (4) feet nine (9) inches; mine only four (4) feet; I hire teams to haul about sixty thousand (60,000) bushels, at one cent and a quarter (1¼,) and fifteen thousand (15,000) bushels to the country farmers.

WILLIAM H. EVANS.

Philip Plummer Mine.

Philip Plummer, West Middletown, Washington county.

Mine located in Washington county.

Quantity and value in dollars of annual product, 26,000 bushels, at 3½ cents per bushel; $910.

Whole number of persons employed, P. Plummer and boy, at present; in the fall, two or three generally.

Amount of capital employed in business, from $100 to $300.

Amount paid annually for wages of employés, from $100 to $300.

Amount paid for materials use in business, about $150.

CHARACTERISTICS OF COLLIERY.—I do the principal part of work myself, so that I have but little to represent; and as I board what hands I generally employ, and have these only two or three months in the year, sometimes off, sometimes on, it is hard for me to determine the amount of daily wages, unless I commence and keep a daily memorandum of each particular, which I have not done.

I have only a country coal bank, where there is no sale, scarcely, until fall, when the farmers come in.

P. PLUMMER.

Wood & Huston.

T. J. Wood and Wm. B. Huston, Pike Run, Washington county.

Mine located in Allen township, Washington county.

Quantity of tons and value in dollars of annual product, 466,924 bushels; $20,000.

Whole number of persons employed, 52.

Amount of capital employed in business, $20,000.

Amount paid annually for wages of employés, $10,000.

Amount paid for materials used in business, $6,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	40	. . .	$2 50	. . .	10	100	
Outside laborers, . .	4	. . .	2 00	. . .	. . .	150	
Inside laborers, . .	1	. . .	2 00	. . .	. . .	125	
Outside mechanics, .	1	. . .	2 00	. . .	. . .	100	
Inside mule-drivers,	5	. . .	2 00	. . .	. . .	100	
Weigh-master, . . .	1	. . .	2 50	. . .	. . .	100	

REMARKS.—Business has been dull; scarcely worth making a report of. Causes: Overstocked market, and condition of affairs South, on which we rely for a market. The present indications are that this year will be better.

WOOD & HUSTON.

Joseph Garrow Mine.

Joseph Garrow, California, Washington county.

Mine located in Washington county.

Quantity and value in dollars of annual product: 77,791 bus.; $2,700.

Whole number of persons employed, 15.

Amount of capital employed in business, $1,500.

Amount paid annually for wages of employés, $252.

Amount paid for materials used in business, $800.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	10	5	$1 50	75 cts.	. . . .	281	
Outside mule drivers,	1						
Inside mule drivers,	1						
Weigh-master, . . .	1						

JOSEPH GARROW.

Yorty's Pike Run Coal Works.

Henry C. Yorty, East Bethlehem, Washington county, Pa.

Mine located in Washington county.

Quantity of tons, and value in dollars of annual product: 600 tons, valued at $600.

Amount of capital employed in business, $200.

Amount paid annually for wages of employés, $300.

Amount paid for materials used in business, $50.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	2	. . .	$1 50	. . . .	8	180	
Outside laborers, . .	1	. . .	1 00	. . . .	10		
Inside laborers, . . .	1	. . .	1 00	. . . .	10		
Outside mechanics, .	1	. . .	1 00	. . . .	10		
Inside mechanics, .	1	. . .	1 00	. . . .	10		
Weigh-master, . . .	1	. . .	1 50	. . . .	10		

HENRY C. YORTY.

Stockdale's Works.

Richard Stockdale, Monongahela City, Washington county.

Mine located in Carroll township.

Whole number of persons employed when in operation, 70. Annual product of the mine, 500,000 bushels=17,860 tons.

RICHARD I. STOCKDALE.

Smith's Coal Works.

J. P. Smith, Pike Run, Washington county.

Mine located in Washington county.

Quantity of tons, and value in dollars, of annual product, 350,000 bushels lump coal, 85,000 bushels nut coal; value at works, in boats, $11,000.

Whole number of persons employed, 55.

Amount of capital employed in business, $25,000.

Amount paid annually for wages of employés, $8,000.

Amount paid for materials used in business, $1,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	40	5	1¾c ℔ bus. and 2c ℔ bus.	. . .	10	90	From $1 50 to $2 00 per day.
Outside laborers, . .	5	. . .	$2 00	. . .	10	100	Including pit boss, who works out and in.
Inside mule drivers,	4	. . .	1 75	. . .	10	90	
Weigh-master, . . .	1	. . .	2 25	. . .	10	90	

REMARKS.—This is a seven foot vein of bituminous coal, remarkable for laying level, and being free from water. The entrys are seven and eight feet wide, and the rooms are worked twenty-five feet wide, leaving a ten foot pillar between them. I have given the value of products at the works; there is no market there, so I have deducted cost of transportation to Pittsburgh, our nearest market. All our coal is loaded into barges, and towed to Pittsburgh.

This year's business we count the worst we have had. As to the cause, everybody says it is the panic. The consumption at Southern ports has been much less than former years, but we are all expecting better times now.

J. P. SMITH.

Shire Oaks.

Hodgson & Mort, Coal Bluff, Washington county.

Mine located in Union township, Washington county.

Quantity of tons and value in dollars of annual product, 30,000 tons; value, $20,550.

Whole number of persons employed, 79 men and boys.

Amount of capital employed in business, $40,000.

Amount paid annually for wages of employés, $24,208.

Amount paid for materials used in business, about $2,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	40	20	$2 25	$1 25	10 to 12	175	
Outside laborers,	6	. . .	2 00	. . .	10 to 12	200	
Inside laborers,	3	. . .	2 00	. . .	10	200	
Outside mechanics,	2	. . .	2 25	. . .	10	200	
Inside mule drivers,	5	. . .	2 00	. . .	12	175	
Weigh-master,	1	. . .	2 25	. . .	12	200	
Dumpers,	1	. . .	2 25	. . .	12	175	
Mining overseers,	1	. . .	3 00	. . .	. . . .	300	

CHARACTERISTICS OF COLLIERY.—Our capacity is treble the amount we have been doing. But for want of better market, or at least better prices, we did not make any great effort.

HODGSON & MORT.

Robbins' Block Coal Mines.

T. Burr Robbins, Midway, Washington county.

Mine located in Washington county.

Quantity of tons and value in dollars of annual product, 58,109 tons of lump, 8,208 tons of nut; $65,233 37.

Number of persons employed, 126.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, $46,731 85.

Amount paid for materials used in business, $9,266 11.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	100	. . .	$1 75	. . .	8	⅔ of working days.	
Outside laborers, . .	9	. . .	1 40	. . .	10		
Inside laborers, . .	2	. . .	1 75	. . .	10		
Outside mechanics, .	2	. . .	2 00	. . .	10		
Inside mechanics, .	1	. . .	2 00	. . .	10		
Outside mule drivers,	2	. . .	1 50	. . .	10		
Inside mule drivers,	7	2	1 60	75c.	10		
Weigh-master, . . .	1	. . .	2 25	. . .	10		
Dumpers, ...	1	. . .	1 40	. . .	10		
Mining overseers, .	1	. . .	3 00				

T. BURR ROBBINS.

Walnut Hill.

Robbins & Arnot, as Pittsburgh and Walnut Hill Coal Company, Midway, Washington county.

Mine located in Washington county.

Quantity of tons and value in dollars of annual product, 22,777 tons of lump coal, 2,364 tons of nut coal, 828 tons of coke; $24,738 60.

Whole number of persons employed, 100.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, $20,789.

Amount paid for materials used in business, $2,417.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	70	. . .	$1 75	. . .	8	109	
Outside laborers, . .	6	1	1 40	75c.	10	158	
Inside laborers, . .	2	5	1 75	75c.	10	190	
Outside mechanics, .	2	. . .	2 25	. . .	10	200	
Inside mechanics, .	2	. . .	1 75	. . .	12	365	
Inside mule drivers,	4	3	1 50	$1 00	10	119	
Weigh-master, . . .	1	. . .	2 50	. . .	10	200	
Dumpers, ...	1	. . .	1 40	. . .	10	119	
Mining overseers, .	1	. . .	3 00	. . .	. . .	313	

T. BURR ROBBINS.

Mingo Coal Works.

Thomas S. Hutchison, Monongahela City, Washington county.

Mine located in Washington county, Pennsylvania.

Quantity of tons and value in dollars of annual product, 15,390 tons coal, valued at $1 22 ton, $18,775; 3,847 tons nut coal, 60c., $2,308.

Whole number of persons employed, 55 men.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	48	. . .	60c. ton.	. . .	8	166	
Outside laborers, . .	1	. . .	$2 00				
Outside mule drivers,	1	. . .	$2 00 per day.		10		
Inside mule drivers,	4	. . .	$2 00	. . .	10		
Weigh-master, . . .	1	. . .	2 50	. . .	10		
Dumpers, ...	1	. . .	2 50	. . .	10		
Mining overseers, .	1	. . .	2 75	. . .	8		

REMARKS.—The demand for coal in the lower markets has been pretty good, yet the price has continued low. The competition among the loaders keeps the price of loading down too much, for the price paid for digging, which has prevented from paying as well as it should. I am satisfied the coal trade is looking up, and will continue to do so.

THOMAS S. HUTCHISON,
Per B.

Grant Mines.

John D. Negley, Pittsburgh, Pa.

Quantity of tons, and value in dollars, of annual product, 55,000 tons; $71,500.

Whole number of persons employed, 162.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Time in operation during year.	REMARKS.
Miners on contract, .	. . .	. . .	. . .	. . .	. . .	Pay 2 to 3 cents ꝑ bushel for screened coal, and 32 to 45 cents ꝑ ton, (2,000 ℔s.,) for unscreened coal, or the run of the mine.
Miners on wages, . .	140	8		Average.		
Outside laborers, . .	5	1	$1 50			
Inside laborers, . .	2	. . .	2 00			
Outside mechanics, .	3	. . .	2 25			
Outside mule drivers,	. . .	. . .	. . .		. . .	Price is very uncertain.
Inside mule drivers,	8	. . .	2 00			
Weigh-masters, . .	2	. . .	2 25			
Dumpers, ...	1	. . .	1 50			
Mining overseers, .	1	. . .	3 00			
Civil engineers, . .	. .	. . .	. . .		. . .	Hired when needed.

Coal Bluff Mines.

John D. Negley, Pittsburgh, Pa.

Quantity of tons, and value in dollars, of annual product, 36,000 tons; $45,000.

Whole number of persons employed, 130.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Time in operation during year.	REMARKS.
Miners on contract, .	. . .	. . .	. . .	. . .	. . .	Pay 2 to 3 cents ꝑ bushel for screened coal, and 32 to 45 cents ꝑ ton (2,000 ℔s.,) for unscreened coal, or the run of the mine.
Miners on wages, . .	92	5	. . .	Average.		
Outside laborers, . .	3	. . .	$1 50			
Inside laborers, . .	1	. . .	2 00			
Outside mechanics, .	1	. . .	2 25			
Outside mule drivers,	. . .	. . .	. . .		. . .	Price is very uncertain.
Inside mule drivers,	4	1	2 00			
Weigh-master, . . .	1	. . .	2 25			
Dumpers, ...	1	. . .	1 50			
Mining overseers, .	1	. . .	2 50			
Civil engineers, . .	. . .	. . .	. . .	. . .	. . .	Hired when needed.

CHARACTERISTICS OF COLLIERY.——Both mines are on the regular Pittsburgh vein of bituminous coal. Grant mines are eight miles west of Pittsburgh, on the P. C. & St. L. Ry.

Coal Bluff mines are about twenty-four miles south of Pittsburgh, on the P. V. & C. Ry., and in lower end of the third pool of the Monongahela river.

Both produce good gas, forge, steam, or family coal.

JOHN D. NEGLEY.

WESTMORELAND COUNTY.

Penn, Coal Run, Shaft No. 1, Shaft No. 2, Youghiogheny Nos. 1, 2, and 4.

Penn Gas Coal Company, Irwin's Station, Westmoreland county.

Mine located in Westmoreland county.

Quantity of tons and value in dollars of annual product, 521,000 tons mined; $575,000.

Whole number of persons employed, 882.

Amount of capital employed in business, $2,000,000.

Amount paid annually for wages of employés, $368,370 43.

Amount paid for materials used in business, $33,981 33.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	676	. . .	$1 74	. .	. . .	220	
Outside laborers, . .	68	. . .	1 25	. . .	10		
Inside laborers, . .	40	20	1 40	$0 70	10		
Outside mechanics, .	14	. . .	1 90	. . .	10		
Inside mule-drivers,	45	. . .	1 60	. . .	10		
Weigh-masters, . .	5	. . .	1 50	. . .	10		
Dumpers, ...	7	. . .	1 40	. . .	10		
Mining overseers, .	7	. . .	2 75	. . .	10		

S. T. BILLMEYER, *Secretary.*

No. 11 Merchants' Exchange, Philadelphia.

Westmoreland Mines.

Westmoreland Coal Company, Irwin, Westmoreland county.

Mines located in Westmoreland and Allegheny counties.

Quantity of tons and value in dollars of annual product:

Allegheny county, 33,344 tons.
Westmoreland county, 340,908 tons.
Total, 374,252 tons; $411,677.

Whole number of persons employed, 664.

Amount of capital employed in business, $1,800,000.

Amount paid annually for wages of employés, $282,759 57.

Amount paid for materials used in business, $33,180 11

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, ...	520	. .	$1 40 1 80	. . . .	. . .	10 mos.	
Miners on wages, ...	. .	. .	1 60	. . .	10		
Outside laborers, ...	30	.	1 25	. . . .	10	11 mos.	
Inside laborers, ...	17	. .	1 35	. . . .	10	11 mos.	
Outside mechanics, ...	5	. .	1 50 2 00	. . . .	10	11 mos.	
Inside mechanics, ...	9	. .	1 40 2 00	. . . .	10	11 mos.	
Outside mule drivers, ...	7	. .	1 25 1 50	. . . .	10	10 mos.	
Inside mule drivers, ...	42	. .	1 60	. . . .	10	10 mos.	
Weigh-master, ...	5	. .	1 50 2 00	. . . .	10	11 mos.	
Wagon oilers, ...	. .	4	. . . . .	$ 60 1 00	10	10 mos.	
Door boys, ...	. .	12	. . . . .	60	10	10 mos.	
Mining overseers, ...	4	. .	2 50 3 00	. . . .	10	12 mos.	
Outside foremen, ...	5	. .	2 50 3 00	. . . .	. .	12 mos.	
Engine drivers and pump men,	4	. .	2 00 3 00	. . . .	. . .	12 mos.	

REMARKS.—The coal produced at the mines of this company is bituminous—from the Pittsburgh seam. It is used in the manufacture of iron and steel, as fuel for locomotive engines, and largely for the supply of gas companies on the Atlantic seaboard.

The great depression of general business, and especially of the iron trade, has affected the demand for this company's coal, and the sharp competition with the coals from West Virginia, which reach market via the Chesapeake and Ohio railroad, and the Baltimore and Ohio railroad, have reduced prices to the lowest possible point. This competition is the more difficult to meet, in consequence of the corporations of West Virginia being free from the tax of three cents per ton, which has been imposed upon the corporations of this State. This tax should be removed, as it materially lessens the production of coal in our State.

The prospect of the trade for the year 1877, is very unsatisfactory. It opens later than ever before, and will probably be small in amount. The principal causes of this condition are:

First. The gas companies carried over from last year unusually heavy stocks of coals.

Second. The very low rates of freight on coals from England and Canada, have caused the gas companies to order from those quarters more largely than for many years.

Third. The active competition between the producers of American coals has given the impression that prices will be further reduced, and gas companies, therefore, delay their orders as much as possible.

F. H. JACKSON,
Vice President.

Emma Mines.

Isaac F. Overholt, Mt. Pleasant, Westmoreland county, Pennsylvania.

Mine located in Westmoreland county.

Quantity of tons and value in dollars of annual product, 14,500 tons at $1 25, $18,125.

Whole number of persons employed, 24.

Amount of capital employed in business, $55,000.

Amount paid for materials used in business, $500 for pit, lumber, &c.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	10	. . .	Avg. $1 50	. . .	6	290	
Coke sellers, ...	6	. . .	Avg. 1 80	. . .	9	290	
Car forkers, ...	2	. . .	Avg. 1 40	. . .	9	290	
Pumping, ...	1	. . .	Avg. 1 25	. . .	5	290	
Leveler of ovens, . .	1	. . .	Avg. 1 80	. . .	9	290	
Outside mule drivers,	1	. . .	Avg. 1 50	. . .	7	290	
Inside mule drivers,	1	. . .	Avg. 1 50	. . .	7	290	
Mining engineers, .	1	. . .	Avg. 2 00	. . .	6	290	
Civil engineers, . .	1	. . .	Avg. 5 00	. . .	8	10	

CHARACTERISTICS OF COLLIERY.—The seam of coal is seven to nine feet high; generally worked seven feet; very soft and friable; only used for manufacturing coke; is very easily mined by any ordinary laborer; very free of slate and sulphur; wherever it crops, can be easily opened and worked; lays very level, and easily drained. Being free from any of the impurities found in other coal, the mines are never found charged with gases that explode among the miners while working.

A good, strong man can mine eight tons per day; the most of the labor is shoveling the coal into the wagons.

The coal in coking gains 10 per cent.; the refuse matter being very small arising from the process of coking. The average oven contains one hundred and twenty-five bushels coal, and is coked in forty-eight hours, except in Friday and Saturday's charges, coke seventy.two hours.

The business has been, and is yet, very dull. The demand is now growing better, but the prices do not improve. The effect of the dullness is caused by the low price of iron.

This coke is considered by furnace men better for smelting than any other fuel in America. It carries the burden better than anthracite coal, and the furnace works freer and faster than with other fuels. Is considered to be the only fuel that directly competes with anthracite coal.

The area of this coal field is limited to thirty-five miles in length, and average four miles in breadth, and will not last, at the present rate of working, over fifty years.

ISAAC F. OVERHOLT.

Waverly Coal Mines.

Waverly Coal and Coke Company, Smithton, Westmoreland county, Pennsylvania.

Mine located in Smith Mills, Westmoreland county.

Quantity of tons and value in dollars of annual product, 10.000 to 15,000 tons; $30,000.

Whole number of persons employed, 30 to 40.

Amount of capital employed in business, $250,000.

Amount paid annually for wages of employés, last year, about $35,000 to $40,000.

Number of men, 30 to 40; daily wages paid men, $1 25 per day, and 2c per bushel to miners; days in operation during year, 150.

Remarks.—Idle greater part of season for lack of trade, caused by excessive taxation—causing all our industries to go under by driving away our trade to more favored localities.

Buckeye Mines.

John M. Cochran and John K. Ewing, Stauffer's, Westmoreland county.

Mine located in Westmoreland county.

Quantity of tons and value in dollars of annual product, 18,000 tons, at $1 25 per ton; $22,500.

Whole number of persons employed, 40.

Amount of capital employed in business, $60,000.

Amount paid annually for wages of employés, $17,000.

Amount paid for materials used in business, $500.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	16	*6	$2 00	$1 00	7	260	*Boys pack'g coke in cars.
Outside laborers,	†11	. . .	1 50	. . .	. . .	. . .	†Coke-burners.
Outside mechanics,	1	. . .	1 75	. . .	. . .	. . .	Blacksmith.
Outside mule-drivers,	1	. . .	1 50				
Inside mule-drivers,	3	. . .	1 50				
Mining overseers,	1	. . .	2 00				

JOHN M. COCHRAN & CO.

American Coke Works.

Samuel Warden & Co., Mt. Pleasant, Westmoreland county.

Mine located in Westmoreland county.

Quantity of tons and value in dollars of annual product, 7,500 tons, at $1 per ton; $7,500.

Amount of capital employed in business, $30,000.

Amount paid annually for wages of employés: About $5,000.

Amount paid for materials used in business: About $300.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	10	1	$1 25	$0 62½	8	275	
Miners on wages,	. . .	. . .	1 40				
Outside laborers,	. . .	. . .	1 25				
Inside laborers,	. . .	. . .	1 40				
Outside mechanics,	. . .	. . .	1 33				
Inside mechanics,	. . .	. . .	1 50				
Inside mule-drivers,	. . .	. . .	1 40				
Mining overseers,	. . .	. . .	1 75				

REMARKS.—Bituminous or soft coal, suitable for the manufacturing of the best coke, and also for fuel for heating houses, and for raising steam, having a large amount of blaze, being suitable for railroad purposes. The seam is about eight feet thick; lays very flat; very uniform in quality; but little slate.

Will, I think, have a better showing the present year, as we have enlarged our works, and now are loading engines and shipping raw or lump coal.

Trade has been very dull for three years, and but little encouragement to men engaged in the manufacturing of coke, but has some appearance of reviving. The cause, in part, has been the overproduction of coke, and the financial condition of the country.

SAMUEL WARDEN & CO.

Millwood Coal and Coke Company's Shaft.

Millwood Coal and Coke Company, Millwood, Westmoreland county.

Mine located in Westmoreland county.

Quantity of tons, and value in dollars, of annual product, 43,000 tons; $38,700.

Whole number of persons employed, 100.

Amount of capital employed in business, $200,000.

Amount paid annually for wages of employés, $30,000.

Amount paid for materials used in business, $5,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	70	. . .	$1 50	. . .	10	190	
Outside laborers, . .	8	. . .	1 25				
Inside laborers, . .		8	1 60	$ 90			
Outside mechanics, .	2	. . .	1 50	. . .	. . .	. . .	
Inside mechanics,	1	. . .	1 60				
Inside mule drivers,	8	. . .	1 50				
Weigh-master, . . .	1						
Mining overseers, .	1						
Civil engineers, . .	1						

R. G. FORD,
Superintendent.

Isabella Mines.

Graff, Bailey & Geib, Cokeville, Westmoreland county.

Mine located in Westmoreland county.

Quantity of tons, and value in dollars, of annual product, 62,000 tons; value, $46,500.

Whole number of persons employed, 100.

Amount of capital employed in business, about $400,000.

Amount paid annually for wages of employés, $56,296.

Amount paid for materials used in business, $2,384

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	50	4	45c a car.	45c a car.	10	286	
Outside laborers, . .	33	. .	$1 50	. . . .	10	300	
Inside laborers, . .	2	. . .	2 25	. . . .	10	286	
Outside mechanics, .	5	. . .	2 25	. . . .	10	286	
Inside mechanics, .	3	. . .	2 25	. . . .	10	286	
Outside mule drivers,	2	. . .	1 75	. . . .	10	300	
Inside mule drivers,	4	. . .	1 75	. . . .	10	286	
Dumpers, ...	1	. . .	1 50	. . . .	10	286	

CHARACTERISTICS OF COLLIERY.—All the coal mined is used for making coke, and raising steam about the premises.

The mine is worked out of a slope, and the coal drawn out by engine, and wire rope. There is no natural drainage, the water is pumped.

GRAFF, BAILEY & GEIB.

North Webster Coal Mine.

John Gilmore, Webster, Westmoreland county.

Mine located in Westmoreland county.

Quantity of annual product, 478,044 bushels.

Whole number of persons employed, 60.

Amount paid annually for wages of employés: Total amount paid, $25,269 51; paid for mining, $12,330 36.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	50	. . .	Average per bu. $2\frac{276948}{178044}$	. . . .	. . . .	150	
Inside laborers, . .	1	. . .	$2 00 per day.	. . . .	. . . .	150	
Outside mechanics, .	1	. . .	2 25	. . . .	. . . .	210	
Inside mule drivers,	3	. . .	2 00	. . . .	. . . .	150	
Weigh-master, . . .	1	. . .	2 25	. . . .	. . . .	150	
Dumpers, ...	1	. . .	2 00	. . . .	. . . .	150	

REMARKS.—Our works are now in operation only about one year. We are engaged in freighting coke, which employs all our barges, (numbering about eighty, and three steamers,) which throws us back in run of coal.

We can handle from ten to twelve thousand bushels of coal each day, when needed. The four outside mechanics are employed in repairing barges and boats. There has been a large run of coal on the river this spring, (1877,) but the run will hardly hold out long, as each road runs about as much in one month now as they did in three, five years ago. There is a larger market for coal now than there ever was before, but prices are very low.

G. W. GILMORE,
For JOHN GILMORE.

Shafton.

Shafton Coal Company, Philadelphia.

Mine located in Shafton, Westmoreland county.

Quantity of tons, and value in dollars, of annual product, 50,000 tons; value, $50,000.

Whole number of persons employed, 106.

Capital stock of the company, $250,000.

Amount paid annually for wages of employés, $38,000.

Amount paid for materials used in business, $11,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	75	12	$1 75	60c. to $1 20	10	300	
Miners on wages,	...	...	1 60	1 00	10	300	
Outside laborers,	4	...	....	....	10	300	
Inside laborers,	1	...	1 50	......	10	300	
Outside mechanics,	4	...	$1 50 to $2 00	....	10	300	
Inside mechanics,	1	...	1 75	....	10	300	
Inside mule drivers,	4	...	1 60	....	10	300	
Weigh-master,	...	1	....	1 00	10	300	
Dumpers,	1	...	....	....	10	300	
Mining overseers,	1	...	2 75				
Engineers,	2	...	2 00				

J. R. SOWER,
President Shafton Coal Company.

Ocean Mines.

Thomas Moore, Youghiogheny, Westmoreland county.

Mine located in Westmoreland county.

Quantity of tons and value in dollars of annual product, 75,000 tons; value, $100,000.

Whole number of persons employed, 200.

Amount of capital employed in business, $150,000.

Amount paid annually for wages of employés, $57,750.

Amount paid for materials used in business, $5,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	150	20	$1 50	75	8	200	
Miners on wages, . .	6	. . .	1 75	. . .	10	200	
Outside laborers, . .	9	. . .	1 50	. . .	10	200	
Outside mechanics, .	3	. . .	2 00	. . .	10	200	
Inside mechanics, .	3	. . .	2 00	. . .	10	200	
Outside mule drivers,	1	. . .	1 75	. . .	10	200	
Inside mule drivers,	6	. . .	1 75	. . .	10	200	
Weigh-master, . . .	1	. . .	2 00	. . .	10	200	
Mining overseers, .	1	. . .	2 50	. . .	10	200	

REMARKS.—Our business has been very dull, for want of being able to make sales of gas coal in the Eastern cities. Cause is non-consumption of gas; the poor are using oil.

Our trade is very poor at Pittsburgh for fuel. Dullness of trade generally; cause, large production and very small consumption.

THOMAS MOORE

West Overton Mines.

A. S. R. Overholt & Co., Westmoreland county, Pennsylvania.

Quantity of tons and value in dollars of annual product, 21,114 tons; $21,000.

Whole number of persons employed, 35 to 40.

Miners on contract, 15; outside mule drivers, 1; inside mule drivers, 2; weigh-master, 1; mining overseers, 1; coke drawers, 12; coke forkers, 4; engineer, 1; wages paid men, $52; time in operation during year, 10 months.

REMARKS.—These works are located at West Overton, in East Huntingdon township, Westmoreland county, Pennsylvania. The mine is in good order, with two openings, 250 feet apart.

A. S. R. OVERHOLT & CO.

Union Gas Coal Works.

Jacob Tomer, junior, Webster, Westmoreland county.

Mine located in Westmoreland county.

Quantity of tons and value in dollars of annual product: Have not worked much for eight months.

Whole number of persons employed, 20.

Miners on contract 10, at $2 00 per day; miners on wages, 6; 2 inside laborers; 2 inside mule-drivers; and 1 mining overseer; work from 8 to 10 hours per day.

CHARACTERISTICS OF COLLIERY.—I have worked very little for nearly a year. I don't do anything but load coal for other parties, and the price had got so low that I could not run.

This spring the ice wrecked the tipple, but expecting a good time, I repaired it, but only got fairly started when the prices got so low that I stopped again.

I am now driving five entries and air-courses, and expect to be able to put in a hundred men when business revives, as it is bound to do some day; and I think I can wait.

I have spent over five thousand dollars in the pit, and have opened nearly a new pit inside. There are about thirty-five acres of coal belonging to the works, with coal on two sides that can be obtained.

JACOB TOMER, junior.

[A.]

COAL, BITUMINOUS—Employees, Production, and Value.

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	POST OFFICE ADDRESS.	MINE—WHERE LOCATED.	Number of tons mined.	Value.	Whole No. of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.
Allegheny County:								
Dickson, Stewart & Co.,	Pittsburgh,	Oak Hill,	40,126	$60,189	83	$40,500	$30,220	*$4,550
Dickson, Stewart & Co.,	Pittsburgh,	Willow Grove,	32,012	48,018	55	83,000	19,640	†4,500
Dickson, Stewart & Co.,	Pittsburgh,	Swissvale,	9,660	14,490	31	......	......	......
Duquesne Coal Company,	Pittsburgh,	Wilkins township,	17,550	39,064	109	200,000	20,899	568
Etna and Vesuvius Coal Co.,	68 Anderson street, Allegheny city,	Hite's station,	20,000	30,000	60	100,000	19,684	1,286
Culp & Gamble,	Coal Valley,	Allegheny county,	33,000	40,000	100	30,000	28,000	4,000
I. D. Risher,	Hope Church,	Allegheny county,	31,753	45,000	120	12,000	31,395	
Joseph Walton & Co.,	Pittsburgh,	Allegheny county,	180,000	252,000	472	900,000	120,000	60,000
Robbins, Lynn & Co.,	Sunny Side,	Allegheny county,	15,618	14,000	40	50,000	12,000	900
Gray & Bell,	Thirty-sixth ward, Pitts'g	Allegheny county,	127,660	164,952	324	......	125,842	
Oak Ridge Coal Company,	Pittsburgh,	Allegheny county,	37,778	56,211	82	50,000	29,934	2,579
Lindsay, McCutcheon & Greeves,	Pittsburgh,	Washington,	13,890	21,285	70	8,300	13,700	6,900
P. Y. Hite,	Tarentum,	Allegheny county,	40,000	40,000	50	......	25,000	2,500
Robbins & Jenkins,	McKeesport,	Allegheny county,	36,329	‡54,450	168	60,000	49,265	8,000
A. H. Kenny & Co.,	Braddock,	Allegheny county,	......	8,975	40	5,000	4,000	2,000
Horner & Roberts,	Elizabeth,	Allegheny county,	52,000	‡78,000	300 to 100	200,000	64,700	3,700
James O'Neil,	Boston,	Allegheny county,	42,000	50,000	119	240,000	35,000	
Wrightman, Bailey & Co.,	Dravosburg,	Allegheny county,	20,000	20,000	75	15,000	20,000	1,000
Huntsman, Miller & Co.,	Allegheny,	Allegheny county,	19,570	20,420	48	79,000	11,933	4,500
Hartley & Marshall,	Temperanceville,	Allegheny county,	......	......	75	......	52,682	4,563
Mansfield Coal and Coke Co.,	Pittsburgh,	Allegheny county,	29,487	33,500	110	......	28,500	3,900
Forster, Clark & Wood,	McKeesport,	Allegheny county,	33,695	42,121	121	30,000	30,500	21,500
O'Neil & Co.,	West Elizabeth,	Allegheny county,	53,571	60,000	160	56,110	45,000	15,000

Allegheny County—Continued								
Pittsburgh National Coal and Coke Company,	Pittsburgh,	Allegheny county,	54,510	$75,013	110	$156,200	$55,876	$4,160
G. W. Jones,	Pittsburgh,	Allegheny county,	41,000	44,300	135	60,000	32,200	3,320
Hampton Coal Mines,	Pittsburgh,	Allegheny county,	26,067	42,642	91	200,000	24,260	1,820
Corry & Co.,	Braddock's,	Allegheny county,	42,000	23,000	100	150,000		
John D. Negley, (Grant Mines,)	Mansfield,	Allegheny county,	55,000	55,000	162			
			1,104,276	$1,432,630	3,120	$2,725,110	$910,230	$161,246
Beaver County:								
J. F. Mansfield,	Cannelton,	Beaver county,	15,000	$24,000	100	$10,000	$16,000	$2,000
Clinton Coal Company,	Rock Point,	Beaver county,	19,467	28,227	75	100,000	21,782	
			34,467	$52,227	175	$110,000	$37,782	$2,000
Bradford County:								
Towanda Coal Company, Barclay Coal Company,	Elmira, N. Y.,	Bradford county,	178,389	$356,778	370	. . . . . .	$196,868	$12,523
Schraeder Coal Company,	South Bethlehem, Pa.,	Bradford county,	177,224	$147,037	231	. . . . . .	128,483	18,554
			355,613	$503,815	601	. . . . . .	$325,351	$31,077
Blair County:								
Blair Iron and Coal Company,	Hollidaysburg,	Blair county,	85,096	$68,076	190	. . . . . .	$57,794	$8,896
S. C. Baker,	Altoona,	Blair county,	13,736	12,360	25	. . . . . .	10,000	1,000
			98,832	$80,436	215	. . . . . .	$67,794	$9,896
Cambria County:								
Cambria Iron Company,	Johnstown,	Johnstown, Cambria county.						
Kittanning Coal Company,	Philadelphia,	Cambria county,	4,464	‡$6,000	36	. . . . . .	$3,925	
J. C. Stineman,	South Fork,	Cambria county,	3,600	2,700	16	$13,000	1,850	$100
Benton & James,	Johnstown,	Cambria county,	2,792	3,071	6	3,000	2,044	139
Wm. Filey,	Hemlock,	Cambria county,	1,026	820	11	3,000	. . . . .	200
			11,882	$12,591	69	$19,000	$6,819	$439
Clarion County:								
Fairmount Coal Company,	New Bethlehem,	Clarion county,	55,000	$66,262	112	. . . . . .	$50,528	
Red Bank Mining Company,	Not in operation.							
Mineral Ridge Coal Company,	Fredonia, N. Y.,	Clarion county,	51,390	81,056	100	$50,000	46,641	$819
			106,390	$147,318	212	$50,000	$97,169	$819

COAL, BITUMINOUS—Employees, Production, and Value—*Continued.*

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	POST OFFICE ADDRESS.	MINE—WHERE LOCATED.	Number of tons mined.	Value.	Whole No. of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.
Clearfield County:								
Webster Coal Company, ...	Houtzdale, ...	Clearfield county,	79,012	$64,147	128	$75,000	$54,000	$6,000
Moshannon Coal Company, . .	Sobieski, ...	Clearfield county,	38,422	38,981	60	100,000	32,078	2,650
Kittanning Coal Company, . .	Osceola, ...	Clearfield county,	2,182	‡2,182	34	. . . . . .	1,253	
Kittanning Coal Company, . .	Philadelphia, ...	Clearfield county,	131,734	‡131,734	183	. . . . . .	88,296	
J. T. Leonard, ...	Clearfield, ...	Clearfield county,	12,000	‡12,000	18	15,000	4,800	1,200
Fisher Bros. & Miller, ...	Houtzdale, ...	Clearfield county,	65,500	55,000	93	38,000	48,000	
			$328,350	$304,044	516	$228,000	$228,427	$9,850
Clarion County:								
Fairmount Coal Company, . . .	New Bethlehem, ...	Clarion county, .	55,044	$27,522	112			
Mineral Ridge Coal Company, .	New Bethlehem, Chatauqua county, N. Y.,	Clarion county, .	51,390	81,056	100	$50,000	$46,641	$819
			$106,434	$108,572	212	$50,000	$46,641	$819
Clinton County:								
Eldridge, Averill & Co., ¶ . . .	Wistar, ...	Clinton county, .	. . . . . .	. . . . . .	. . .	$200,000		
			. . . . . .	. . . . . .	. . .	$200,000		
Elk County:								
North-western Mining and Exchange Company, ...	Daguscahonda, ...	Elk county, . . .	27,525	$34,406	70	$20,000	$23,216	$12,604
St. Mary's Coal Company, . . .	Williamsport, ...	Elk county, . . .	81,687	117,100	117	295,000	70,000	10,000
			109,212	$151,506	187	$315,000	$93,216	$22,604
Fayette County:								
Pittsburgh and Connellsville Gas Coal and Coke Co., . .	Pittsburgh, ...	Fayette county, .	107,144	$60,000	187	$81,720	$84,000	
H. C. Frick, ...	Broad Ford, ...	Fayette county, .	100,000	95,000	150	250,000	60,000	

John S. Cunningham & Co.,	Brownsville,	Fayette county,	31,680	$28,512	20 to 80	$14,000	$23,000	$1,200
Frazer & Frye,	Fayette City,	Fayette county,	38,632	26,375	80	50,000	32,000	12,000
Morgan & Co.,	Pittsburgh,	Fayette county,	33,725	‡50,000	75	35,000		
Lewis Gemble,	West Bethlehem,	Fayette county,						
A. A. Hutchinson & Bro.,	Pittsburgh,	Fayette county,	45,000	35,200	47	100,000	25,000	6,000
Brown & Cochran,	Dawson Station,	Fayette county,	115,200	115,200	257	200,000	99,741	6,000
Cochran & Strickler,	Broad Ford,	Fayette county,	10,000	6,239	19	30,000	4,725	6,113
Daniel Bortner,	Fayette City,	Fayette county,	1,828	2,275	15	2,000	856	65
J. Stauft,	Scottdale, Westm'd co.,	Fayette county,						
W. A. Kifer,	do. do.	Fayette county,	3,887	‡3,887	10	2,500	1,907	300
Everson, Macrum, & Co.,	do. do.	Fayette county,	51,346	51,346	36	20,000	. . . . .	5,000
Sherrick, Rice & Co.,	do. do.	Fayette county,	6,250	6,250	13	10,000	3,500	800
			544,692	$480,284	939	$795,220	$334,729	$37,478
Fulton County:								
H. S. Wisharts,‖	Wells Tannery,	Fulton county,	126	$189	2			
			126	$189	2			
Huntingdon County:								
Reakirt Bro. & Co.,	Philadelphia,	Huntingdon co.,	12,500	$12,500	38	$20,000	$10,000	$800
			12,500	$12,500	38	$20,000	$10,000	$800
Lawrence County:								
Lee & Patterson,	Rock Point, Beaver co.,	Lawrence co.,	27,218	$39,466	105	$150,000	$33,698	$5,000
Wampum Coal Company,	Wampum,	Lawrence co.,	13,861	20,098	35	100,000	10,702	
			41,079	$59,564	140	$250,000	$44,400	$5,000
Lycoming County:								
McIntyre Coal Company,	Elmira, N. Y.,	Lycoming co., Pa.,	208,701	$417,403	430			
			208,701	$417,403	430			
Mercer County:								
Oakland Coal Company,	Sharpsville,	Mercer,	30,000	$59,421	63	$40,000	$30,224	$8,397
J. Phillips & Co.,	Neshannock,	Mercer,	25,553	51,706	101	. . . . .	32,058	3,877
J. Forker & Co.,	Sharon,	Mercer,	21,770	41,363	56	. . . . .	25,070	1,090
Spearman, Ulp & Co.,	Sharon,	Mercer,	24,584	44,251	80	25,000	29,565	6,688
Henry Bombeck,	Sharon,	Mercer,	1,000	1,900	7	250	1,185	500
Kimberly & Filer,	Sharon,	Mercer,	30,548	58,577	101	36,000	31,745	2,192

COAL, BITUMINOUS—Employees, Production, and Value—*Continued.*

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	POST OFFICE ADDRESS.	MINE—WHERE LOCATED.	Number of tons mined.	Value.	Whole No. of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amuunt paid for materials used in business.
Mercer Mining and Manufacturing Company, ...	Pardoe, ...	Mercer and Butler counties, . . .	125,000	‡187,500	200	200,000	110,000	12,000
Bethel Coal Company, ...	Sharon, ...	Mercer, ...	23,450	44,555	165	140,000	30,700	**9,500
Snyder Coal Company, ...	Sharon, ...	Mercer, ...	46,376	88,177	95	20,000	40,791	1,795
Filer & Co., ...	Sharon, ...	Mercer, ...	29,455	57,080	105	27,000	32,050	2,473
			$357,736	$634,530	973	$488,250	$363,391	$48,512
McKean County:								
Buffalo Coal Company, ...	Clermont, ...	McKean county, .	81,770	$120,000	200 to 175	. . . . .	$93,744	
Buttsvile Coal Mines, ...	Alton, ...	McKean county, .	31,829	77,980	107	. . . . . .	49,591	$5,388
			113,599	$197,980	295	. . . . . .	$143,335	$5,388
Somerset County:								
Keystone Coal and Manufacturing Company, ...	Keystone Junction, . .	Somerset, ...	50,887	‡$75,000	100	. . . . . .	$40,527	$6,000
			50,887	$75,000	100	. . . . . .	$40,527	$6,000
Tioga County:								
Blossburg Coal Company, . . .	Corning, N. Y., ...	Tioga county, Pa.,	182,107	$273,160	761	$100,000	$186,000	
Fall Brook Coal Company, . .	Watkins, N. Y., ...	Fall Brook, Tioga county, ...	68,381	‡102,000	117			
Fall Brook Coal Company, . .	Watkins, N. Y., ...	Antrim, ...	121,515	‡181,000	307			
Morris Run Coal Mining Co., . .	Morris Run, ...	Morris Run, Pa., .	189,847	‡283,500	406	100,000		
			561,850	$839,660	1,591	$200,000	$186,000	

Venango County:								
Cranberry Coal Company, . . .	South Oil City, ...	Venango, ...	13,000	†$18,500				
			13,000	$18,500				
Washington County:								
W. P. Rend & Co., ...	McDonald, ...	Washington co., .	31,428	$31,428	83	$100,000	$27,412	
Midway Block Coal Company, .	Midway, ...	Washington co., .	21,000	21,000	71			
Jonathan Allisons, ...	Washington, ...	Washington co., .	12,000	12,000	31	12,000	8,475	$1,275
Alex. Moore, ...	Locust Hill, ...	Washington co., .	536	600	2	. . . . . .	350	
R. Wintersgill, ...	Fredericktown, ...	Washington co., .	380	300	2			
William Maggs, ...	Cannonsburg, ...	Washington co., .	830	698	2			
Boon Brothers, ...	Houstonville, ...	Washington co., .	850	725	5	1,000	525	25
S. W. Rogers, ...	Bealsville, ...	Washington co., .	357	‡300	1	. . . . . .	300	
W. H. Evans, ...	Cannonsburg, ...	Washington co., .	2,550	‡2,550	7	. . . . . .	. . . . .	1,000
Philip Plummer, ...	West Middleton, ...	Washington co., .	929	910	2	300	300	150
Wood & Huston, ...	Pike Run, ...	Washington co., .	16,676	20,000	52	20,000	10,000	600
Joseph Garrow, ...	California, ...	Washington co., .	2,778	2,700	15	1,500	250	800
Henry C. Yortz, ...	East Bethlehem, ...	Washington co., .	600	600	2	200	300	50
Richard Stockdale, ...	Monongahela City, . . .	Washington co., .	17,857	‡17,857	70			
I. P. Smith, ...	Pike Run, ...	Washington co., .	12,803	11,000	55	25,000	8,000	1,000
Hodgson & Mort, ...	Coal Bluff, ...	Washington co., .	30,000	26,550	79	40,000	24,208	2,000
T. Burr Robbins, ...	Midway, ...	Washington co., .	66,317	65,233	126	100,000	46,731	9,666
Robbins & Arnot, ...	Midway, ...	Washington co., .	††25,141	24,738	100	100,000	20,789	2,417
Thomas S. Hutchinson, ...	Monongahela City, . . .	Washington co., .	19,237	21,083	55			
John D. Negley, ...	Coal Bluff Mines, . . .	Washington co., .	36,000	45,000	120			
			298,269	$305,222	880	$400,000	$147,640	$18,963
Westmoreland County:								
Penn Gas Coal Company, . . .	Irwin Station, ...	Westmoreland co.,	521,000	$575,000	882	$2,000,000	$368,370	$33,981
Westmoreland Coal Company, .	Irwin, ...	Westmoreland co.,	‡‡374,252	411,677	664	1,800,000	282,759	33,180
Isaac T. Overholt, ...	Mount Pleasant, ...	Westmoreland co.,	14,500	18,125	24	55,000	. . . . .	500
Waverly Coal and Coke Co., . .	Smith's Mills, ...	Westmoreland co.,	15,000	30,000	35	250,000	30,000	
John M. Cochran & Co., . . .	Stauffers, ...	Westmoreland co.,	18,000	22,500	40	60,000	17,000	500
Samuel Warden & Co., ...	Mount Pleasant, ...	Westmoreland co.,	7,500	7,500	14	30,000	5,000	300
Millwood Coal and Coke Co., .	Millwood, ...	Westmoreland co.,	43,000	38,000	100	200,000	30,000	5,000
Graff, Bailey & Geib, ...	Cokeville, ...	Westmoreland co.,	62,000	46,500	100	400,000	56,296	2,384
John Gilmore, ...	Webster, ...	Westmoreland co.,	17,073	‡17,073	60	. . . . . .	12,334	
Shafton Coal Company, ...	Philadelphia, ...	Shafton, Westm'reland county, . .	50,000	50,000	106	250,000	38,000	11,000

COAL, BITUMINOUS—Employees, Production, and Value—*Continued.*

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	POST OFFICE ADDRESS.	MINE—WHERE LOCATED.	Number of tons mined.	Value.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.
Thomas Moore, ...	Youghiogheny, ...	Westmoreland co.,	75,000	100,000	200	150,000	57,750	5,000
A. S. R. Overholt & Co., ...	West Overton, ...	Westmoreland co.,	21,114	21,000	35			
			1,218,439	$1,337,375	2,285	$5,195,000	$897,518	$91,845

NOTE.—Reports have been received from a number of persons who do a small business, and who do not employ but a few men—the work being principally performed by the owners of these small "banks," or collieries, and are, therefore, omitted in the foregoing tables.

* Paid freight, $12,840.

† Paid freight, $11,204.

‡ Estimated.

§ Cost at chutes.

¶ Not in operation.

‖ Just being opened and developed.

** Leaving $3,355 profit and interest on capital.

†† 828 tons coke.

‡‡ 33,444 tons mined in Allegheny county.

Production of Semi-Bituminous Coal of Northern Pennsylvania.

COAL COMPANIES.	1875.	1876.	1877.
Fall Brook Coal Company,	190,806	217,347	199,510
Morris Run Coal Company,	164,506	197,698	188,001
Blossburg Coal Company,	226,420	201,939	221,734
The Blossburg Region,	581,732	616,984	602,245
McIntyre Coal Company,	164,504	208,701	183,715
The Association's tonnage,	746,236	825,685	785,960
Towanda Coal Company,	200,424	160,343	164,344
Schraeder Coal Company,	157,686	200,795	175,757
Fall Creek B. Coal Company,	18,527		
The Towanda Region,	376,637	361,138	340,101
Total Northern Pennsylvania,	1,122,873	1,186,823	1,126,061

[B.]

COAL, BITUMINOUS—

NAME OF COLLIERY, OR OPERATOR.	Number of men employed.	Number of boys employed.	Total number of men and boys employed.	Hours worked per day.	Days in operation during year.	Miners on contract.
Allegheny County.						
Dickson, Stewart & Co.,	85	3	88	8 to 10	264	Estimated.
Dickson, Stewart & Co.,	54	1	55	8 to 10	270	. . . .
Dickson, Stewart & Co.,	29	2	31	8 to 10	. . . . .	. . . .
Duquesne Coal Company,	109	. .	109	8 to 10	103	. . . .
Etna and Vesuvius Coal Company,	58	2	60	. . . . .	. . . . .	. . . .
J. H. Gamble,	100	. .	100	. . . . .	150	$3 00
I. D. Risher,	114	6	120	8 to 10	125	2 00
Joseph Walton & Co.,	472	. .	472	8 to 10	240	. . . .
Robbins, Lynn & Co.,	40	. .	. . .	8 to 10		
Gray & Bell,	298	26	324	10	190 to 213	1 68
Oak Ridge Coal Company,	82	. .	82	10	260	1 90
Lindsey, McCutchen & Gross,	70	. .	70	. . . . .	240	. . . .
P. Y. Hite,	47	3	50	8	250	2 00
Robbins & Jenkins,	140	. .	140	10	. . . . . .	. . . .
A. H. Kenney & Co.,	38	2	40	10	120	. . . .
Horner & Roberts,	100 to 300	. .	150	8	224	. . . .
James O'Neil,	116	3	119	10	179	2½ cts. per bushel.
Whigham, Bailey & Co.,	75	. .	75	10	100	. . . .
Huntsman, Miller & Co.,	47	1	48	. . . . .	150 to 300	. . . .
Hartley & Marshall,	123	17	140	10	206	3 cts. per bushel.
Mansfield Coal and Coke Company,	110	. .	110	. . . . .	180	. . . .
Foster, Clark & Wood,	120	1	121	9	200	2⅝ cts. per bushel.
O'Neil & Co.,	160	. .	160	10	147	$2 00
Pittsburgh National Coal and Coke Company,	89	21	110	10	240	. . . .
G. & W. Jones,	125	10	135	. . . . .	226	2 25
Dickson, Stewart & Co., and Armstrong & Shoenberger,	89	2	91	10	150	1 63
Curry & Co.,	100	. .	100	10	300	1 25 to 3 00
	3,020	100	3,120	8½		
Average,	. . . . .	. .	. . .	. . . . .	188	$1 98
Beaver County.						
J. T. Mansfield,	88	10	98	8 to 10	300	. . . .
Clinton Coal Company,	54	16	70	9	150	1 50
	142	26	168	9		
Average,	. . . . .	. .	. .	. . . . .	225	$1 50
Bradford County.						
Barclay Coal Company,	347	23	370	10	259	Estimate $3 00
Schraeder Coal Company,	209	22	231	8 to 10	250	$3 00; 55 cts. ₱ ton
	556	45	601	9		
Average,	. . . . .	. .	. . .	. . . . .	254½	$3 00
Blair County.						
Blair Iron and Coal Company,	175	15	190	10	286	36 cents per ton.
S. C. Baker,	28	. .	28	9 to 10	250	$1 25
	203	15	218	9½		
Average,	. . . . .	. .	. . .	. . . . .	268	. . . .
Cambria County.						
Cambria Iron Company.						
Kittanning Coal Company,	30	6	36	. . . . .	150	
J. C. Stineman,	10	6	16	8	240	$1 50
Benton & James,	6	. .	6	. . . . .	300	. . . .
Wm. Filey,	9	2	11	10	120	1 25
	55	14	69	9		
Average,	. . . . .	. .	. . .	. . . . .	202½	$1 37½
Clarion County.						
Fairmount Coal Company,	112	6	118	9	313	Estimate $3 00
Mineral Ridge Coal Company,	96	4	100	8 to 10	300	$1 25 to $1 50
Red Bank Mining Company,	. . . . .	. .	. . .	. . . . .	. . . . . .	. . . .
	208	10	218	9½		
Average,	. . . . .	. .	. . .	. . . . .	306½	$2 19

[B.]

WAGES.

Miners on wages.	Outside laborers—men.	Outside laborers—boys.	Inside laborers—men.	Inside laborers—boys.	Inside mechanics—men.	REMARKS.
75 cts. per ton.	$1 25 to $2 75	50c. to $1 00				
75 cts. per ton.	1 25 to 2 00	....	....	$1 75		
75 cts. per ton.	1 20	....	$1 50	2 00		
....	1 50	....	2 00			
....	1 70	....	1 50	....	$2 00	
....	2 25	....	2 25			
....	2 00	1 00	2 50			
3 cts. per bush.	2 25	....	....	....	3 00	
....	1 85⅓	....	1 85⅓	....	2 08	
....	1 30	....	1 60			
....	....	....	....	....	....	Contract with one man; 60 cents per 100 bushels clean coal; all labor, except mining.
....	1 10	....	1 50	50		
....	2 25	....	2 25			
....	1 50 to 2 50	....	2 00	....	2 50	
....	1 75					
....	2 00	....	2 25			
$1 50	1 25	....	1 50			
....	1 50	....	3 00	....	2 00	
2 25	2 00	....	2 00			
....	1 75	....	1 75	....	2 00	
2 00	1 50	....	1 10			
....	....	....	....	1 25		
....	1 56	50	1 65			
$1 64	$1 42	$0 75	$1 67	$1 37	$2 26	
60 cts. per ton.						
....	$1 25	....	$1 80	....	$2 00	
....	$1 25	....	$1 80	....	$2 00	
....	$1 50	....	$1 66	$0 80		
$2 08	1 45	....	1 50	1 00	$1 97	
$2 08	$1 47½	....	$1 58	$0 90	$1 97	
....	$1 45	$0 70	$1 35	$0 44		
....	1 00	....	1 10	....	$1 40	
....	$1 22½	$0 70	$1 22½	$0 44	$1 40	
....	$1 25					
75 cts. per ton.						
....	$1 25					
....	....	....	$1 50			
....	....	....	....	....	....	See Table A.
....	....	....	$1 50			

COAL, BITUMINOUS—

NAME OF COLLIERY, OR OPERATOR.	Number of men employed.	Number of boys employed.	Total number of men and boys employed.	Hours worked per day.	Days in operation during year.	Miners on contract.
Clearfield County.						
Webster Coal Company,	115	13	128	7 to 10	218	40 cents per ton.
Moshannon Coal Company,	58	6	64	8	300	. . . .
Kittanning Coal Company,	29	5	34	10	24	. . . .
Kittanning Coal Company,	136	47	183			
J. T. Leonard,	15	3	18	8	250	40 cents per ton.
Fisher Bros. & Miller,	93	. .	93	8	250	$1 75
	446	74	520			
Average,	. . . . .	. .	. . .	. . . . .	208½	$1 87
Clinton County.						
Eldridge, Averill & Co.,	. . . .	. .	. . .	. . . . .	. . . . . .	. . . .
Elk County.						
Northwestern Mining and Exchange Company	73	2	75	10	260	50 cents per ton.
St. Mary's Coal Company,	116	1	117	. . . . .	300	. . . .
	189	3	192			
Average,	. . . . .	. .	. . .	. . . . .	280	. . . .
Fayette County.						
Pittsburgh and Connellsville Gas, Coal and Coke Company,	182	5	187	. . . . .	313	. . . .
H. C. Frick,	150	. .	150	8 to 10	300	$1 75
Jno. S. Cunningham & Co.,	60	20	80	10	200	2 cts. per bushel.
Frazer & Frye,	80	. .	80	10	200	$2 00
Morgan & Co.,	75	. .	75	8	300	. . . .
Lewis Gremble,	. . . . .	. .	. .	. . . .	. . . . . .	. . . .
A. A. Hutchinson & Bro.,	47	. .	47	. . . . .	300	1 75
Brown & Cochran,	237	20	257	. . . . .	275	1 50
Cochran & Strickler,	19	. .	19	10	155	1 75
Daniel Bortner,	15	. .	15	10	43	. . . .
J. Stauft,	. . . . .	. .	. . .	. . . . .	. . . . . .	. . . .
W. A. Kiper,	. . . . .	. .	. . .	. . . . .	. . . . . .	. . . .
Everson, Macrum & Co.,	36	. .	36	10	250	. . . .
Sherrick, Rice & Co.,	10	3	13	8	250	. . . .
	911	48	959			
Average,	. . . . .	. .	. . .	. . . .	232	$1 75
Fulton County.						
H. S. Wisharts,	2	. .	2	. . . . .	18	75 cents per ton.
Huntingdon County.						
Reakirt, Bro. & Co.,	34	4	38	7 to 10	200	$1 43
Lawrence County.						
Lee & Patterson,	105	. .	105	10	240	$2 00
Wampum Coal Company,	35	. .	35	. . . . .	. . . . . .	1 75
	140	. .	140			
Average,	. . . . .	. .	. . .	10	240	$1 87½
Lycoming County.						
McIntyre Coal Company,	394	36	430	10	280	Estimate $3 00
Mercer County.						
Oakland Coal Company,	60	6	66	8 to 10	. . . . . .	$1 86
I. Phillips & Co.,	96	5	101	10	100 to 300	. . . .
J. Forher & Co.,	44	12	56	10	175 to 234	$1 20 to $2 25
Spearman, Ulp & Co.,	66	14	80	8	247	. . . .
Henry Bombech,	7	1	8	10	300	. . . .
Kimberly & Filer,	101	. .	101	. . . . .	202	. . . .
Mercer Mining and Manufacturing Company,	175	25	200	9 to 10	200	. . . .
Bethel Coal Company,	. . . . .	. .	. . .	. . . . .	. . . . . .	. . . .
Snyder Coal Company,	95	. .	95	10	280	. . . .
Filer & Co.,	105	. .	105	. . . . .	200	. . . .
	749	63	812			
Average,	. . . . .	. .	. . .	. . . . .	239	$1 79

WAGES—Continued.

Miners on wages.	Outside laborers—men.	Outside laborers—boys.	Inside laborers—men.	Inside laborers—boys.	Inside mechanics—men.	REMARKS.
....	....	....	$1 75			
$1 62	$1 75	$0 87				
....	1 50					
....	1 60					
$1 62	$1 61	$0 87	$1 75			
....	....	....	....	....	....	See Table A.
$1 50	$1 25 to $1 50	....	$1 25	$0 50	$1 75	
2 00	....	....	2 00			
$1 75	$1 38	....	$1 12½	$0 50	$1 75	
....	$1 25					
....	1 50	....	....	....	$2 50	
....	2 00	....	$2 00			
$1 50	1 50	....	1 35	....	1 80	
....	....	....	....	....	....	Not in operation.
....	1 50					
....	1 75	$0 75	1 75			
....	1 25					
1 75						
....	....	....	....	....	....	Not in operation.
....	....	....	....	....	....	See Table A.
1 50	....	....	1 25			
....	1 25	75				
$1 58	$1 50	$0 75	$1 58	....	$2 15	
....	....	....	....	....	....	This mine is being developed.
....	....	$1 00				
....	$1 50	....	$2 00	....	$3 00	
....	1 10	....	1 25			
....	$1 30	....	$1 62½	....	$3 00	
....	$1 42	81c. to $1 00	$1 62 to 2 03	81c. to $1 01	$1 62 to 2 45	
$1 75	$1 25	....	$1 56	$1 00	$2 00	
2 00	1 37	....	....	....	2 12	
....	1 50	....	1 87	....	....	One clerk $2 50 per day—234 days.
1 75	1 30	....	1 40	....	1 85	
....	....	$1 00				
1 50	1 25	....	1 25	....	2 00	
1 60	1 25	....	1 60	1 20		
....	....	....	....	....	....	See Table A; also, page
1 50	1 25	....	1 25	....	2 00	
1 50	1 25	....	1 25	....	2 00	
$1 65	$1 30	$1 00	$1 49	$1 10	$1 97	

COAL, BITUMINOUS—

NAME OF COLLIERY, OR OPERATOR.	Number of men employed.	Number of boys employed.	Total number of men and boys employed.	Hours worked per day.	Days in operation during year.	Miners on contract.
McKean County.						
Buffalo Coal Company,	194	6	200	8	300	....
Buttsville Coal Mines,	94	13	107	8	290	....
	288	19	307			
Average,	.....	.	...	8	295	....
Somerset County.						
Keystone Coal and Manufacturing Company,	100	. .	100	8 to 10	......	$2 00
Tioga County.						
Blossburg Coal Company,	637	124	761	10	230	3 00
Fall Brook Coal Company, Fall Brook,	109	8	117	8 to 10	150	2 40
Fall Brook Coal Company, Antrim,	300	7	307	8 to 10	300	2 40
Morris Run Coal Mining Company,	406	. .	406	.....	......	2 50
	1,452	139	1,591			
Average,	.....	. .	...	9¼	226	$2 57½
Venango County.						
Cranberry Coal Company,	.....	. .	...	.....	......	....
Washington County.						
W. P. Rend & Co.,	83	. .	83	10	176	....
Midway Block Coal Company,	65	6	71	10	......	....
Jonathan Allison,	31	. .	31	9	150	2 00
Alex. Moore,	2	. .	2	10	.....	....
R. Wintersgill,	2	. .	2	8	150	1 00
William Maggs,	2	. .	2	8 to 10	150	....
Boon Brothers,	5	. .	5	8	100	1 25
S. W. Rogers,	1	. .	1	.....	......	....
W. H. Evans,	6	. .	6	8	260	1 50
Philip Plummer,	3	. .	3	10 to 12	......	....
Wood & Huston,	52	. .	52	10	125	2 50
Joseph Garrow,	10	5	15	.....	281	1 50
Henry C. Yortz,	2	. .	2	10	180	1 50
Richard Stockdale,	70	. .	70			
I. P. Smith,	50	5	55	10	90	1¾ to 2 cts. ⅌ bus.
Hodgson & Mort,	59	20	79	10 to 12	175	$2 25
T. Burr Robbins,	124	2	126	8 to 10	208	....
Robbins & Arnot,	91	9	100	8 to 10	109	....
Thos. S. Hutchinson,	55	. .	55	8 to 10	166	60 cents per ton.
Jno. D. Negley,	.....	. .	...	.....	......	....
	713	47	760			
Average,	.....	. .	...	9¾	165	*$1
Westmoreland County.						
Penn Gas Coal Company,	862	20	882	10	220	....
Westmoreland Coal Company,	648	16	664	10	300	$1 40 to $1 80
Isaac T. Overholt,	24	. .	24	6 to 8	290	1 50
Waverly Coal and Coke Company,	40	. .	40	.....	150	2 cts. per bushel.
John M. Cochrane & Co.,	40	. .	40	7	260	$2 00
Samuel Warden & Co.,	.....	. .	...	8	275	1 25
Millwood Coal and Coke Company,	92	8	100	10	190	1 50
Graff, Bailey & Leib,	96	4	100	10	286	....
John Gilmore,	60	. .	60	.....	150	2 cts. per bushel.
Shafton Coal Company,	93	13	106	10	300	$1 75
Thomas Moore,	180	20	200	8 to 10	200	1 50
A. S. Overholt & Co.,	40	. .	40	.....	260	....
	2,175	81	2,256			
Average,	.....	. .	...	7¾	240	$1 68

WAGES—Continued.

Miners on wages.	Outside laborers—men.	Outside laborers—boys.	Inside laborers—men.	Inside laborers—boys.	Inside mechanics—men.	REMARKS.
....	$1 25	....	$1 25	$0 50 to $0 75		
$2 35	1 50	....	1 55			
$2 35	$1 37½	....	$1 40	$0 50		
....	$1 50	....	$1 50			
....	$1 40	$0 80	$1 50	....	....	Men in mill, $1 40; office, $3 00.
....	1 35	....	1 45	$0 56	$1 50	
$1 80	1 50	....	1 25	62	1 50	
....	1 50	....	2 00	....	1 90	
$1 80	$1 43¾	$0 80	$1 55	$0 59	$1 63	
... ...	....	....	....	....	....	See Table A, and body of report.
... ..	$1 50	....	$1 50	....	$1 75	
....	1 25	....	1 25	....	1 50	
2 cts. per bus.	1 25					
....	....	....	....	....	....	See Table A.
....	....	....	....	....	....	See Table A.
$1 25						
....	....	....	....	....	....	See Table A.
....	....	....	....	....	....	See Table A.
....	2 00	....	2 00			
....	....	$0 75				
....	1 00	....	1 00			
....	2 00	....	2 00			
1 75	1 40	....	6 75	....	$2 00	
1 75	1 40	75	1 75	$0 75	1 75	
....	2 00					
....	....	....	....	....	....	See Table A, and body of report.
*$1 50	$1 52	$0 75	$1 60	$0 75	$1 75	*Estimated from data.
$1 74	$1 25	....	$1 40	$0 70		
1 60	1 25	....	1 35	....	$1 40 to $2 00	
....	1 25					
....	1 50	*$1 00	....	....	....	*Forking coke in cars.
1 40	1 25	....	1 40	$0 62½	1 50	
....	1 25	....	1 60	90	1 60	
45 cts. per car.	1 50	....	2 25	....	2 25	
....	....	....	2 00			
$1 60	....	....	1 50	60 to 1 20	1 75	
1 75	1 50	....	....	....	2 00	
$1 61½	$1 34	$1 00	$1 64	$0 80	$1 78	

COAL, BITUMINOUS—

NAME OF COLLIERY, OR OPERATOR.	Outside mechanics—men.	Outside mule drivers—men.	Outside mule drivers—boys.	Inside mule drivers—men.
Allegheny County.				
Dickson, Stewart & Co.,	$1 75	....	....	$1 75
Dickson, Stewart & Co.,	1 75	....	....	$1 60 to 2 00
Dickson, Stewart & Co.,	....	....	$1 20	1 60
Duquesne Coal Company,	....	....	....	2 00
Etna and Vesuvius Coal Company,	2 00	....	....	1 65
J. H. Gamble,	....	....	....	2 25
I. D. Risher,	3 00	....	....	1 75
Joseph Walton & Co.,	3 00	....	....	2 50
Robbins, Lynn & Co.				
Gray & Bell,	1 99	....	....	1 87½
Oak Ridge Coal Company,	1 50	....	....	1 60
Lindsey, McCutchen & Gross.				
P. Y. Hite,	1 75	$1 65	....	1 65
Robbins & Jenkins,	....	2 00	....	2 25
A. H. Kenney & Co.				
Horner & Roberts,	3 00	*	....	1 25 to 2 75
James O'Neil,	1 50	1 75	....	1 50
Whigham, Bailey & Co.,	....	....	....	2 00
Huntsman, Miller & Co.,	1 75	....	1 25	1 60
Hartley & Marshall,	2 00	....	....	3 00
Mansfield Coal and Coke Company.				
Foster, Clark & Wood,	2 00	2 00	....	2 25
O'Neil & Co.,	2 00	1 00	....	1 75
Pittsburgh National Coal and Coke Company,	2 25	....	1 25	1 75
G. & W. Jones.				
Dickson, Stewart & Co., and Armstrong & Shoenberger,	....	1 75	....	....
Curry & Co.				
Average,	$2 01	$1 69	$1 23	$1 78
Beaver County.				
J. F. Mansfield,	$1 75			
Clinton Coal Company,	2 25	....	$0 75	....
Average,	$2 00	....	$0 75	$1 30
Bradford County.				
Barclay Coal Company,	$1 85	$1 50	....	$1 50
Schraeder Coal Company,	2 08	1 53	$0 82	1 60
Average,	$1 96	$1 51½	$0 82	$1 55
Blair County.				
Blair Iron and Coal Company,	$1 82	....	....	$1 24
S. C. Baker,	1 50	$1 00	....	1 10
Average,	$1 66	$1 00	....	$1 17
Cambria County.				
Cambria Iron Company.				
Kittanning Coal Company.				
J. C. Stineman,	....	$1 25	....	....
Benton & James,				
Wm. Filey.				
Average,	....	$1 25	....	....
Clarion County.				
Fairmount Coal Company,	$1 50	$1 25	....	$1 50
Mineral Ridge Coal Company,	....	....	....	....
Red Bank Mining Company,	....	....	....	....
Average,	$1 50	$1 25	....	$1 50
Clearfield County.				
Webster Coal Company,	$1 75	$1 75	$0 50	$1 40
Moshannon Coal Company,	2 00	1 62	....	....
Kittanning Coal Company.				

WAGES—Continued.

Inside mule drivers—boys.	Dumpers.	Slate pickers—men.	Slate pickers—boys.	Mining overseers.	Weigh-master.	Civil engineer.	Brakemen.	REMARKS.
...	$1 25	...	...	...	$2 25	...	$1 75	
$1 00	...	...	...	$3 00	2 25	$2 50	1 75	
...	...	...	...	3 00	1 75	...	1 75	
...	...	...	...	2 25	1 25	3 00		
1 65	1 25	$1 25	...	4 00	1 25	10 00	1 70	
...	2 25	...	...	2 25	2 50			
1 75	2 25	...	...	3 25				
...	2 25	...	...	3 00	2 50			
...	...	...	...	2 91⅓	2 10	3 33⅓		
...	...	...	...	3 00	1 75			
...	1 50	...	...	2 00	2 00			
...	2 25	...	...	...	2 50			
...	1 75	...	...	...	2 25	...	...	* Use locomotive.
...	1 50	1 50	...	3 00				
...	...	...	...	3 00	2 50			
...	...	...	...	...	2 05			
...	1 75	...	$0 50	2 50	2 00			
...	$1 00 to 2 25	...	...	2 75				
...	1 50	...	...	2 00	1 75			
1 25	1 70	...	...	2 50	2 00			
...	1 00	...	...	2 60	2 00			
$1 41	$1 73	$1 37	$0 50	$2 76	$2 03	$4 71	$1 73	
$1 30	...	...	...	$3 00	$1 25			
$1 30	...	...	...	$3 00	$1 25			
...	$1 50	...	...	$2 66	$2 36	$4 50		
...	1 55	$1 40 to $1 66	...	3 75	2 25	5 00		
...	$1 52½	$1 03	...	$3 21	$2 30½	$4 37½		
$0 87	$1 51	...	...	$3 12	$1 34			
...	1 45	...	...	3 00				
$0 87	$1 48	...	...	$1 06	$1 34			
$0 80								
$0 80								
...	$1 50	...	...	...	$2 00			
40 to 75 cts.								
...	...	...	...	...	...	...	...	See Table A.
...	$1 50	...	...	...	$2 00			
...	$1 20	...	...	$3 00	$1 50	$6 00		
...	1 75	...	...	3 00	1 75	...	...	Stable boss, $2 00.

COAL, BITUMINOUS—

NAME OF COLLIERY, OR OPERATOR.	Outside mechanics—men.	Outside mule drivers—men.	Outside mule drivers—boys.	Inside mule drivers—men.
Clearfield County—Continued.				
Kittanning Coal Company.				
J. T. Leonard.				
Fisher Bro's & Miller,		$1 75		$1 60
Average,		$1 70⅔	$0 50	$1 50
Clinton County.				
Eldridge, Averill & Co.,				
Elk County.				
North-Western Mining and Exchange Company,	$2 00	$1 00		$1 25
St. Mary's Coal Company,	1 75	1 25		1 25
Average,	$1 87½	$1 12½		$1 25
Fayette County.				
Pittsburgh and Connellsville Gas Coal and Coke Co.,				
H. C. Frick.				
Jno. S. Cunningham & Co.,		$1 25		$1 00
Frazer & Frye,		1 75		1 75
Morgan & Co.,	$1 80	1 25		
Lewis Gremble,				
A. A. Hutchinson & Bro.,	2 00	1 85		1 85
Brown & Cochran,	2 00	1 50		1 50
Cochran & Strickler,		1 65		1 65
Daniel Bortner,				1 75
J. Stauft,				
W. A. Kiper,				
Everson, Macrum & Co.,	1 75			2 00
Sherrick, Rice & Co.,		1 50		
Average,	$1 88	$1 53		$1 64
Fulton County.				
H. S. Wisharts,				
Huntingdon County.				
Reakirt, Bro. & Co.,	$1 40		$1 00	$1 40
Lawrence County.				
Lee & Patterson,	$2 25	$0 80		$1 50
Wampum Coal Company,	1 50	1 25		1 25
Average,	$1 87½	$1 02		$1 37½
Lycoming County.				
McIntyre Coal Company,	$1 62 to $2 45	$1 62		$1 62
Mercer County.				
Oakland Coal Company,	$2 25			$1 75
I. Phillips & Co.,	2 00			1 70
J. Forker & Co.,	2 25			1 75
Spearman, Ulp & Co.,	2 00			
Henry Bombeck.				
Kimberly & Filer,	2 00			1 75
Mercer Mining and Manufacturing Company,			$1 20	1 70
Bethel Coal Company,				
Snyder Coal Company,	2 00			1 75
Filer & Co.,	2 00			1 75
Average,	$2 07		$1 20	$1 63
McKean County.				
Buffalo Coal Company,	$2 00			$1 50
Buttsville Coal Mines,	2 50		$1 25	
Average,	$2 25		$1 25	$1 50
Somerset County.				
Keystone Coal and Manufacturing Company,	$2 00			$1 50

WAGES—Continued.

Inside mule drivers—boys.	Dumpers.	Slate pickers—men.	Slate pickers—boys.	Mining overseers.	Weigh-master.	Civil engineer.	Brakemen.	REMARKS.
....	$1 60	$1 60	...	$3 00	$1 75	$5 00		
....	$1 51⅔	$1 60	...	$3 00	$1 66⅔	$5 50		
....	....	....	..	....	....	...	...	See Table A.
....	$1 35	....	...	$2 50	$1 50	$4 50		
....	1 50	....	...	3 25	1 50	...	...	One car oiler, (boy,) 60 cents.
....	$1 42½	....	...	$2 87½	$1 50	$4 50		
$0 75	....	....	...	$2 25	$1 65	...	...	For further particulars, see body of report.
....	....	....	...	....	2 50			
....	$1 75	....	...	....	2 00			
....	....	....	...	....	1 60			
....	....	....	...	....	....	...	...	Not in operation.
....	....	....	..	2 00	1 75			
....	1 50	....	...	2 50				
....	....	....	...	1 65				
....	....	....	...	....	1 75			
....	....	....	...	....	....	...	...	Not in operation.
....	....	....	...	....	....	...	...	See Table A.
....	....	....	...	2 50	1 75			
$0 75	$1 62½	....	...	$2 18	$1 85			
....	....	....	...	....	....	...	...	This mine is being developed.
....	....	....	..	$2 00	$1 40			
....	$1 50	....	...	$3 00	$1 50			
....	1 10	....	...	3 00	1 25			
....	$1 30	....	...	$3 00	$1 37½			
....	$1 42	$1 25 to $1 42	...	....	$1 58	...	...	Stablemen, $1 51.
$1 12½	$1 25	....	...	$4 00	$1 75			
....	....	....	...	4 00	2 00			
....	....	....	...	4 00	2 00			
1 50	1 30	....	...	2 85	1 50			
....	1 40	....	...	4 00	2 00			
1 60	1 25	....	...	3 00	2 00	$5 00		
....	....	....	...	....	....	...	...	See Table A.
....	1 40	....	...	4 00	2 00			
....	1 40	....	...	4 00	2 00			
$1 41	$1 33	....	...	$3 73	$1 78	$5 00		
....	$1 25	$1 25	...	$3 00	$1 25			
$1 37½	1 50	1 50	...	3 00	2 00			
$1 37½	$1 37½	$1 37½	...	$3 00	$1 62½			
....	$1 00	....	...	$3 50	$2 00			

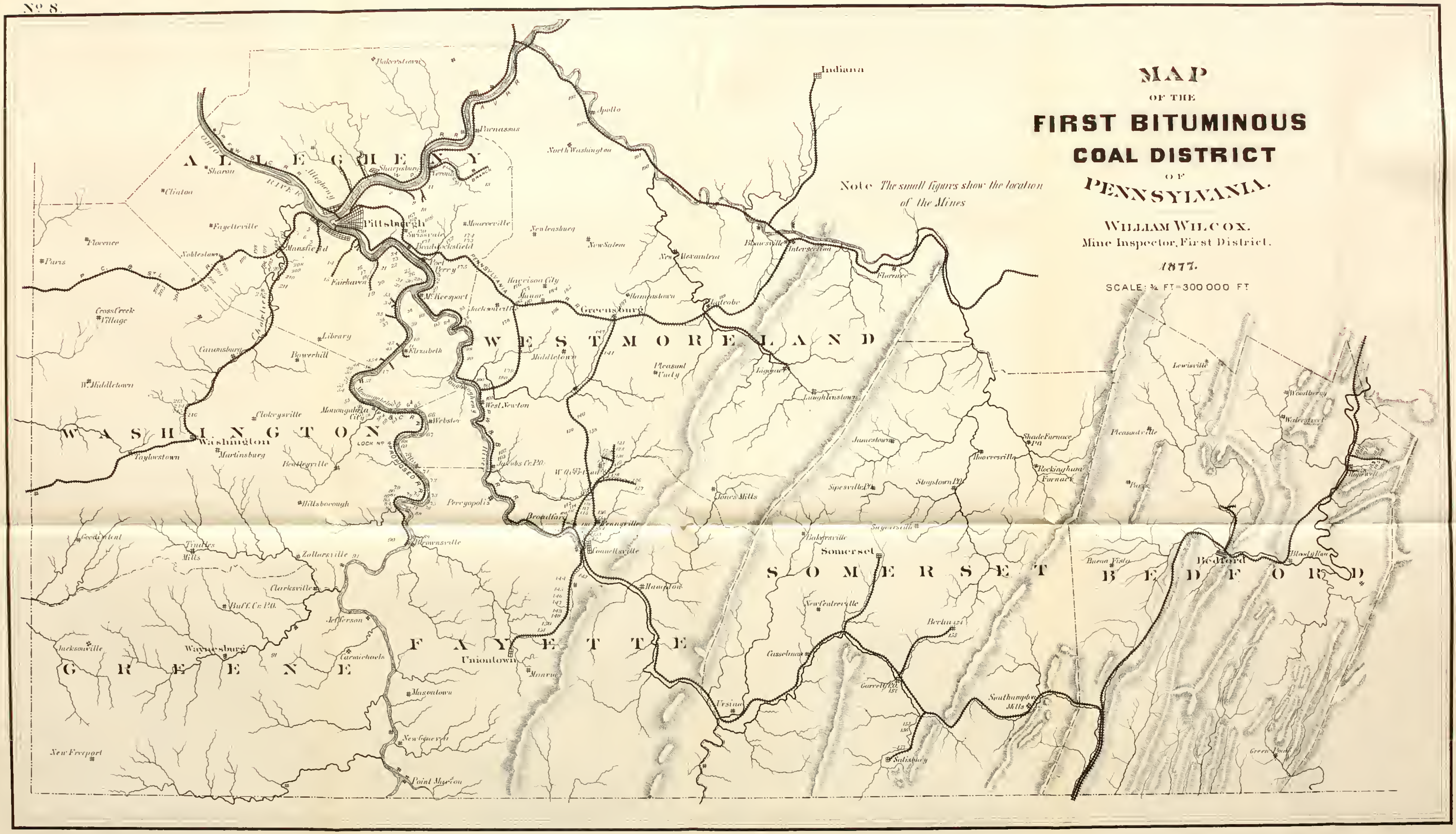
COAL, BITUMINOUS—

NAME OF COLLIERY, OR OPERATOR.	Outside mechanics—men.	Outside mule drivers—men.	Outside mule drivers—boys.	Inside mule drivers—men.
Tioga County.				
Blossburg Coal Company,	$2 00	$2 00	$0 80	$1 88
Fall Brook Coal Company, Fall Brook,	2 00	....	....	1 50
Fall Brook Coal Company, Antrim,	1 75	....	....	$1 00 to 1 35
Morris Run Coal Mining Company,	2 00	....	....	* 1 40
Average,	$1 93	$2 00	$0 80	$1 42
Venango County.				
Cranberry Coal Company,	....	....	....	....
Washington County.				
W. P. Rend & Co.,	....	$1 50	....	$1 60
Midway Block Coal Company,	$1 50	....	$1 00	....
Jonathan Allison,	1 50	1 25	....	1 75
Alex. Moore,	....	....	....	....
R. Wintersgill.				
William Maggs,	....	....	....	....
Boon Brothers.				
S. W. Rogers,	....	....	....	....
W. H. Evans,	....	....	....	1 50
Phillip Plummer,	....	....	....	....
Wood & Huston,	2 00	....	....	2 00
Joseph Garrow.				
Henry C. Yortz,	....	....	....	....
Richard Stockdale.				
I. P. Smith,	....	....	....	1 75
Hodgson & Mort,	2 25	....	....	2 00
T. Burr Robbins,	2 00	1 50	....	1 60
Robbins & Arnot,	2 25	1 50	1 00	....
Thomas S. Hutchinson,	....	2 00	....	2 00
John D. Negley,	....	....	....	....
Average,	$1 91	$1 55	$1 00	$1 77
Westmoreland County.				
Penn Gas Coal Company,	$1 90	....	....	$1 60
Westmoreland Coal Company,	$1 50 to 2 00	$1 25 to $1 50	....	1 60
Isaac T. Overholt,	....	1 50	....	1 50
Waverly Coal and Coke Company.				
John M. Cochrane & Co.,	1 75	1 50	....	1 50
Samuel Warden & Co.,	1 33	....	....	1 40
Millwood Coal & Coke Company,	1 50	....	....	1 50
Graff, Bailey & Leib,	2 25	1 75	....	1 75
John Gilmore,	2 25	....	....	2 00
Shafton Coal Company,	1 50 to 2 00	....	....	1 60
Thomas Moore,	2 00	1 75	....	1 75
A. S. Overholt & Co.				
Average,	$1 81	$1 54	....	$1 61

WAGES—Continued.

Inside mule drivers—boys.	Dumpers.	Slate pickers—men.	Slate pickers—boys.	Mining overseers.	Weigh-master.	Civil engineer.	Brakemen.	REMARKS.
$0 80	$1 40	$1 40	$0 80	$3 50	$2 25	$6 39	...	Men in mill, $1 40; office, $3 00.
...	1 35	1 38	...	4 80	2 69			
...	1 40	1 40	...	4 80	1 69			
...	1 36	1 26	...	2 70	2 00	...	...	*Men and boys; blacksmith, $2 00.
$0 80	$1 37½	$1 36	$0 80	$3 96	$2 15	$0 30		
...	...	...	...	...	...	...	...	See Table A, and body of report.
...	$1 50	...	...	$2 50	$2 00			
$1 25	...	...	...	3 00	1 50			
...	1 25	...	...	1 75	2 00			
...	...	...	...	...	...	...	...	See Table A.
...	...	...	...	...	...	...	...	See Table A.
...	...	...	...	...	...	...	...	See Table A.
...	...	...	...	...	...	...	...	See Table A.
...	...	...	...	...	2 50			
...	...	...	...	...	1 50	...	...	I am inside mechanic, and weigh-master myself.
...	...	...	...	...	$2 25			
...	...	...	...	3 00	2 25			
...	1 40	...	...	3 00	2 25			
...	1 40	...	...	3 00	2 50			
...	2 50	...	...	2 75	2 50			
...	...	...	...	...	...	...	...	See Table A, and body of report.
$1 25	$1 61	...	...	2 71	2 12½			
...	$1 40	...	...	$2 75	$1 50			
...	...	...	...	$2 50 to 3 00	$1 50 to 2 00			
...	...	...	...	2 00	...	$5 00	...	
...	...	...	...	2 00				See body of report for other classifications.
...	...	...	...	1 75				
...	1 50							
...	2 00	...	...	...	2 25			
...	...	...	...	2 75	1 00	...	...	
...	...	...	...	2 50	2 00			One night and day engineer, $2 00.
...	$1 63	...	...	$2 40	$1 71	$5 00		

No 8.



MAP OF THE FIRST BITUMINOUS COAL DISTRICT OF PENNSYLVANIA.

WILLIAM WILCOX.
Mine Inspector, First District.
1877.
SCALE: ¾ FT=300 000 FT

Note The small figures show the location of the Mines

INDEX.

LITTLE SAW-MILL RUN

1 CHESS MINES.
2 VENTURE MINES
3 COAL RIDGE
4 ENTERPRISE

STEUBENVILLE PLANE

5 FOXES' MINES
6 CARLINS' MINES
7 WETTENGALES & GORMLEY

A V R R

8 COAL DALE MINE
9 SANDY CREEK No. 1
10 SANDY CREEK, No. 2
11 ARMSTRONG, DICKSON & CO

PLUM CREEK BRANCH

12 PLUM CREEK MINES.
13 PLUM CREEK MINES

MONONGAHELA RIVER.

14 CASTLE SHANNON
15 CASTLE SHANNON
16 JOS KEELING & CO
17 JOS KEELING & CO
18 JONES & LAUGHLIN
19 H B HAYS & BRO.
20 H B HAYS & BRO.
21 H B HAYS & BRO.
22 H B HAYS & BRO
23 J. D. RISHER.
24 JOS. WALTON & CO
25 BEDMAN & FAWCETT
26 HINNEY'S
27 W H BROWN'S HEIRS
28 W H BROWN'S HEIRS
29 W H BROWN'S HEIRS.
29½ WM NEEL
30 WM STONE'S HEIRS
31 J C RISHER.
32 J C RISHER
33 GEO LYSLE & SONS
34 WHIGHAM & BAILEY.
35 GULP & GAMBLE.
36 LINN, WOOD & CO
37 FOSTER, CLARK & CO.
38 ROBBINS & JENKINS
39 GUMBERT & HUEY
40 WOOD, SHAFER & CO
41 HOMER & ROBERTS
42 O'NEIL & CO
43 WALTON & CO.
44 JONES BROS
45 WALTON & CO
46 HODGSON & MORT
47 WENONE MINES
48 CLIFF—SCULLY & CO
49 COAL BLUFF—PATTERSON & CO.
50 CINCINNATI—W. B. HUSTON
51 BUFFALO—HUSTON, HUTCHINSON & CO.
52 W H BROWN'S HEIRS
53 NEW EAGLE—LINDSAY & McCUTCHEON.
54 DRY RUN
55 MINGO MINE—THOS HUTCHINSON.
56 STEIB
57 WARREN'S
58 CATSBIRD—STEIB
59 W H. BROWN'S HEIRS
60 HUTCHINSON & CO
61 ROBBINS, LINN & CO
62 STEIB
63 GREENHALTH & STOCKDALE
64 JACOB TOMER.
65 JNO GILMORE
66 GEFFERT'S
67 LYNCH & ROBINSON
68 IRON CITY—PHILLIPS MATTENZWAY
69 J W. CLARK.
70 G. W CLARK
71 SPEER
72 DANIELS & BORTENER
73 CARONDALET MINES—FRAZIER & FRY.
74 CLIPPER—G W CLARK
75 RUTHERFORD
76 TRUMBULL & HALL.
77 J P. COURSIN
78 AMERICAN MINES
79 WOOD & HUSTON.
80 JNO. SHORT
81 JEHU P SMITH
82 F C FORLONG.
83 LEADBEATER & CO.
84 REED BROS
85 J S NEAL.
86 CAROTHERS MUSGRAVE & CO
87 MORGAN & DIXON
88 JOS GARROW
89 CUNNINGHAM & CO.
90 LEONARD & CO
91 SAYERS

YOUGHIOGHENY RIVER.

92 JNO PENNEY.
93 JAS O'NEIL.
94 W H BROWN'S HEIRS

B. & O. R. R

95 OSCEOLA MINES—CO-OPERATIVE.
96 N J BIGLEY—CO-OPERATIVE
97 YOUGHIOGHENY COAL HOLLOW COAL CO
98 C H ARMSTRONG & SON
99 OCEAN MINES—THOS MOORE
100 C P MARKLE
101 YOUGHIOGHENY SHAFT CO
102 WAVERLY COAL CO.
103 FOX & KIFFER.

HICKMAN BRANCH.

104 COCHRAN & KESTER
105 BROWN & COCHRAN
106 BROWN & COCHRAN

B & O R. R.

107 JACKSON MINES
108 TYRONE MINES—LAUGHLIN & CO
109 BROWN & COCHRAN
110 COCHRAN BROS.
111 H C FRICK, No 1.
112 H C FRICK, No. 2

MT PLEASANT BRANCH

113 H. C. FRICK, No. 3.
114 STRICKLER & LAIN
115 HUTCHINSON BROS
116 MARKLE, SHARROCK & CO.
117 SUMMIT MINES
118 TIP-TOP—C. H ARMSTRONG & SONS
119 IMPSON, LAKE & CO
120 EVERSON, KEAFF & CO.
121 STAUFFER & CO.
122 B F OVERHOLT.
123 PAINTER MINES.
124 LAWRISON & STAUFT
125 RISING SUN MINE.
126 EMMA MINE
127 OVERHOLT & BUCKLEY
128 STAR MINE
129 BOYLE & HAZLETT
130 McMILLEN MINE
131 DUNCAN & BRO.

B & O R R

132 PITTSB'G & CONN. GAS, COAL & COKE CO

SOUTH-WEST PENN R. R

133 PITTSB'G & CONN. GAS, COAL & COKE CO
134 MAJOR MINE
135 SHERRICK MINE
136 PANNSVILLE MINE
137 VALLEY MINE
138 SHERRICK MINE
139 DILLINGER
140 STONER & CO
141 S. WARDEN & CO
142 PAINTER & FOX

UNIONTOWN BRANCH.

143 CONNELLSVILLE GAS, COAL & COKE CO.
144 WATT, REED & CO
145 R. HENDERSON & CO.
146 PAUL, BROWN & CO.
147 DUNBAR FURNACE COMPANY
148 FURGERSON MINES
149 HOGGSETT, WATT & CO.
150 FROST MINES
151 LEMONT FURNACE COMPANY

B. & O R R

152 BUFFALO COAL COMPANY

BERLIN BRANCH.

153 ADAMS MINE.
154 TODD, REED & CO

SAULSBURG BRANCH R R

155 CUMBERLAND ELK LICK COAL COMPANY
156 THOS S WILLIAMS.
157 KEYSTONE JUNCTION MINES

BRIDGEP'T & BEDF'D BRANCH R. R

158 SANDY RUN COAL COMPANY

SIX-MILE RUN RIDDLESB'G BR. R.R

159 KIMBLE COAL AND IRON COMPANY
160 DEVALL'S SHAFT
161 DEVALL'S DRIFT.
162 CUNARD SHAFT—WIGTON
163 COALDALE MINES
164 SCOTT SHAFT.
165 SIX-MILE RUN COAL COMPANY
166 EDGE HILL MINES

P R R

167 JACOB WEINNAN
168 HAMPTON MINE.
169 DUQUESNE MINE
170 DICKSON, STEWART & CO
171 CORBY & CO
172 OAK HILL MINES

TURTLE CREEK BRANCH R R

173 N. Y. & CLEVELAND GAS COAL CO., No. 1
174 N. Y. & CLEVELAND GAS COAL CO., No 2

P. R. R., Continued

175 SPRING HILL, WESTMORELAND COAL CO.
176 LARIMER, WESTM'D, Nos. 1 & 2, COAL CO.
177 IRWIN, WESTM'D, Nos. 1 AND 2, COAL CO.

SEWICKLEY BRANCH R R.

178 PENN GAS COAL CO., SHAFT No 2.
179 PENN GAS COAL CO., SHAFT No 3
180 PENN GAS COAL CO., SHAFT No 4
181 PENN GAS COAL CO., No. 4 DRIFT

P R R, Continued.

182 PENN GAS COAL CO., DRIFT No 3.
183 PENN GAS COAL CO., SHAFT No. 1.
184 SHAFTON COAL CO
185 PENN GAS COAL CO., No 2 DRIFT.
186 PENN GAS COAL CO., DRIFT No. 1.
187 GREENSBURG COAL CO.
188 LATROBE MINES.
189 LOYALHANNA COAL AND COKE CO.

WEST PENN. R R

190 SALTSBURG COAL COMPANY
191 SALTSBURG AND NORTH WEST COAL CO
191½ LAMPMAN & CO
192 SALTSBURG COAL COMPANY

PITTSB'G, CINN & ST LOUIS R. R.

193 BELL'S MINES, MANSFIELD & C. & C. CO
194 GRANT MINES—NEGLEY & CO
195 CAMP HILL—D STEEN & SON
196 P W MINES—HUNSIMAN, MILLER & CO
197 FORT PITT COAL COMPANY.
198 CHERRY MINES.
199 OAK RIDGE COAL COMPANY, "LIMITED"
200 NATIONAL COAL COMPANY.
201 WILLOW GROVE C. CO.—DICKSON, S. & CO.
202 LAUREL HILL—W P REND
203 BRIER HILL—RICHARDS' HEIRS
204 ROBBINS BLOCK COAL COMPANY
205 TAYLOR, ULP & CO
206 T B ROBBINS—WALNUT HILL

CHARTIERS VALLEY R. R

207 GLENN MINES
208 CHARTIERS VALLEY COAL COMPANY.
209 LINDSEY'S MINES
210 SUMNER HILL
211 BOWER HILL A J
212 McCABE, CLARK & CO —SLOPE.
213 ALLISON'S MINES.
214 [illegible] MINES
215 WASHINGTON MINES
216 V HARDING SHAFT

REPORTS
OF
INSPECTORS OF BITUMINOUS COAL MINES.

FIRST DISTRICT—Wm. Wilcox, Inspector.

To the Honorable WILLIAM MCCANDLESS,
Secretary of Internal Affairs:

SIR: In compliance with the requirements of the act of Assembly, entitled "An act providing the means of securing the health and safety of persons employed in the bituminous coal mines of Pennsylvania," under which act His Excellency John F. Hartranft, Governor of Pennsylvania, conferred upon me the *appointment* as Inspector of Mines for the First district, I herewith submit my first monthly report of the condition and operations of the coal mines of the district, together with such other matters and information, in connection with mines and mining, as I have deemed of importance. I have also tabulated the number and causes of deaths and serious accidents to date, as far as reported, and shall add to the list, as returns reach me, monthly. It is now more than three months since I received the appointment, and I have not been able to report, owing to the depression of the coal business, and the unsettled condition of the miners, together with the want of the proper instrument in the hands of the operators to measure the air current. There was also some delay in getting out the blanks, &c. Since commissioned, ninety-six visits have been made in the counties of Washington, Westmoreland, Fayette, and Allegheny, in the Monongahela Valley. Some of the mines are all that could be desired; but the great majority of them are very badly ventilated, and will require some time to regulate and put in proper condition. Some improvements are making in ventilation. One of them deserves honorable mention. Messrs. Horner & Roberts have erected a powerful furnace at their colliery, at Elizabeth, Allegheny county. The Penn Gas Coal Company and the Westmoreland Coal Company, in Westmoreland county, are making great improvements to their works. Many other operators are doing all in their power to improve their mines, and I am glad to say that a disposition appears to manifest itself among the operators generally to comply with the wise provisions of the law. Section 12 of the act above referred to, requires:

"The inspectors of bituminous coal mines shall each devote the whole of his time to the duties of his office; it shall be his duty to examine the mines in his district as often as possible, to see that all the provisions of this act are observed and strictly carried out; and he shall make a record of all examinations of mines, showing the condition in which he finds them, the number of mines in his district, the number of persons employed in and about each mine, the extent to which the law is obeyed, the progress made in the improvement sought to be secured by the passage of this act, the number of accidents and deaths resulting from injuries received in the mines, and all other facts of public interest concerning the condition and progress of mining in his district; which record shall, on or before the first Monday of each month, together with all matters and things furnished him in accordance with the provisions of this act, be filed in the office of the Secretary of Internal Affairs, to be by him recorded and included in the annual report of his department; he shall also, from the time of his commission, make strict and careful inquiry and examination into the condition of the ventilation and drainage of the mines."

Hoping that this may meet your approbation, I remain,
Most respectfully yours,

WILLIAM WILCOX,
Mine Inspector First District.

LIST OF ACCIDENTS *occurring in the Mines of the First Bituminous Coal District of Pennsylvania, with a synopsis of the investigations, or inquisitions, held, together with the remarks upon the condition of the several collieries, &c., in said District, for the month of October, 1877:*

NAME.	Age.	Married or single.	Number of orphans.	Date of accident.	Nature of Accident.	Date of investigation.	REMARKS.
Adam Johnston, . .	19	Single, .	None.	Oct. 17,1877,	Broken leg.		
John Greenawalt, . .	30	Married,	None.	Oct. 17,1877,	Fracture of leg by fall of coal.		
Edward Dougherty,	35	Married,	None.	Sept.22,1877,	Rib broken by fall of coal.		
John Kelch, ...	28	Married,	None.	Oct. 13,1877,	Back injured by fall of slate.		
Patrick McDonough,	30	Married,	None.	Oct. 30,1877,	Rib broken by fall of slate.		
Philip Garn, ...	28	Married,	None.	Oct. 25,1877,	Kicked by a mule.		
Albert Sipple, . . .	35	Single, .	None.	Oct. 15,1877,	Back and knee injured by falling slate.		
Daniel Foucks, . . .	15	Single, .	None.	Oct. 29,1877,	Leg and arm broken, ...	. . . . .	Run over by trip of wagons.
Josiah Lee, ...	. .	Married,	None.	Sept.21,1877,	Killed, ...	Sept. 22.	Killed by falling down shaft.
Thomas Bayns, . . .	14	Boy, . .	None.	Sept.26,1877,	Killed, ...	Sept. 27.	Worked with his father; killed by falling slate.
James Gibson, . . .	24	Married,	2	Sept.26,1877,	Killed, ...	Sept. 27.	Worked in a remote part of the mine; killed by falling slate; dead when found.
Peter McDonald, . .	12	Single, .	None.	Oct. 29,1877,	Killed, ...	Nov. 13.	Killed by falling slate, while working with his father, in J. C. Risher's mine, at Dravosburgh, Allegheny county, Pa.

Joseph Lee was, on September 21, sinking a shaft for Gray & Bell, and had fired a blast, and went down too soon after, and was overcome by gases, and while being hoisted up the shaft fell off the rope and was killed. Verdict, accidental.

Thomas Bayns was working with his father, at the Plum Creek mines, mining coal, and was killed by a fall of slate. Verdict, accidental.

James Gibson was mining coal for James Rutherford, and worked in a remote part of the mine by himself, and was found dead under fallen slate. Verdict, accidental.

Peter McDonald, jr., was working with his father, mining coal, on October 29, 1877, at J. C. Risher's mine, at Dravosburgh, Allegheny county, Pa. I was not notified, but discovered the accident while on a visit to the mine, November 13, 1877. I held investigation November 13, 1877. Peter McDonald, father of deceased, Willson Kelly, and Peter Franey were examined by me. No one was present at the time of the accident but the father of deceased. Kelly and Franey went to the room, but deceased never spoke after they came. On being taken out of the mine, he died in Kelly's arms. The coroner not being notified, no inquest was held. The coroner has since been notified by me.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the*
vania, for the Month

NAME OF COLLIERY.	NAME OF OPERATOR.	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS.	Slope, Shaft or Drift.	Pumps—how many.	Number of engines.	Horse power.
1	2	3	4	5	6	7
Union Coal Works. . .	Armstrong, Dickson & Co., . . .	Bituminous,	Drift, ...	. .	†3	30
Street's Run, ...	I. D. Risher, ...	Bituminous,	Drift, ...	. . .	. . .	.
Enterprise, ...	O'Neil & Co., ...	Bituminous,	Drift, ...	. . .	. . .	. .
P. & C. G., C., & C. Co.,	P'b'gh & Con. Gas Coal and Coke Co., Schoenburger & Co., . .	Bituminous,	Slope & shaft,	6	4	. .
Hampton Mine, ...	Armstrong & Son, Dickson & Co.,	Bituminous,	Drift, ...	. . .	. . .	. .
Mount Egity, ...	William Lander, ...	Semi-bitum.	Drift, ...	. . .	. . .	. .
Spring Hill, ...	Westmoreland Coal Company, .	Bituminous,	Drift, ...	. . .	. . .	. .
Larimer, No. 1. . . .	Westmoreland Coal Company, .	Bituminous,	Drift, ...	. . .	. . .	. .
Foster, ...	Westmoreland Coal Company, .	Bituminous,	Slope, ...	1	2	40
South Side, ...	Westmoreland Coal Company, .	Bituminous,	Drift, ...	. . .	. . .	. .
P. W. Mine, ...	Huntsman, Miller & Co., ...	Bituminous,	Drift, ...	. . .	. . .	. .
Iron City, ...	Phillips & Mettenzwey, ...	Bituminous,	Drift, ...	2	. . .	. .
Nixon Mine, ...	Chartiers Valley Coal Company,	Bituminous,	Drift, ...	. . .	. . .	. .
Shafton Coal Company,	Shafton Coal Company, ...	Bituminous,	Shaft, ...	1	2	102
Enterprise Coal Works,	V. Harding, ...	Bituminous,	Shaft, ...	1	1	30
Oak Ridge, ...	Oak Ridge Coal Co., (limited,) .	Bituminous,	Drift, ...	. . .	. . .	. .
Pine Run, ...	Lynn, Wood & Co., ...	Bituminous,	Drift, ...	1	. . .	. .
Millwood Shaft, ...	Millwood Coal and Coke Co., . .	Bituminous,	Slope & shaft.	2	1 pr.	120
Weinman, ...	Jacob Weinman, ...	Bituminous,	Drift, ...	. . .	. . .	. .
Joe Gorrow, ...	Joseph Gorrow, ...	Bituminous,	Drift, ...	. . .	. . .	.
Colliery, No. 4, ...	Penn'a Gas Coal Co., ...	Bituminous,	Drift, ...	. . .	. . .	. .
Shaft, No. 1, ...	Penn'a Gas Coal Co., ...	Bituminous,	Slope & drift,	1	2	. .
Shaft, No. 2, ...	Penn'a Gas Coal Co., ...	Bituminous,	Slope & shaft,	1	2	. .
Coal Run, ...	Penn'a Gas Coal Co., ...	Bituminous,	Drift, ...	. . .	. . .	. .
Shaft, No. 3, ...	Penn'a Gas Coal Co., ...	Bituminous,	Drift & shaft,	1	1	. .
Grant Mines, ...	John D. Negley, ...	Bituminous,	Drift, ...	. . .	. . .	. .
Camp Hill, ...	D. Steen & Sons, ...	Bituminous,	Drift, ...	. . .	. . .	. .
Jefferson, ...	Foster, Clark & Wood, ...	Bituminous,	Drift, ...	. . .	. . .	. .
Buckeye Mines, ...	John M. Cochran, ...	Bituminous,	Drift, ...	1	. . .	. .
Plum Creek, ...	N. Y. and Clev. Gas Coal Co., . .	Bituminous,	Drift, ...	. . .	. . .	. .
Sandy Creek, ...	N. Y. and Clev. Gas and Coal Co.	Bituminous,	Drift, ...	. . .	. . .	. .
Turtle Creek, No. 4. . .	N. Y. and Clev. Gas Coal Co., . .	Bituminous,	Drift, ...	. . .	. . .	. .
Turtle Creek, No. 3, . .	N. Y. and Clev. Gas Coal Co., . .	Bituminous,	Drift, . . .	. . .	. . .	. .
Fulton, ...	G. & W Jones, ...	Bituminous,	Drift, ...	. . .	. . .	. .
Ocean Mine, ...	Thomas Moore, ...	Bituminous,	Drift, ...	. . .	. . .	. .
Uniondale Coke Works,	T. W. Watt & Co., ...	Bituminous,	Slope, ...	2	2	20
Tremont Mine, ...	George W. Clark, ...	Bituminous,	Drift, ...	. . .	. . .	. .
North Webster, ...	John Gillmore, ...	Bituminous,	Drift, ...	*1	. . .	. .
Fort Pitt Mines, ...	Fort Pitt Coal Company, ...	Bituminous,	Drift, ...	. . .	. . .	. .
Midway Block Coal Co.,	Taylor & Hulp, ...	Bituminous,	Drift, ...	3	1	40

* Syphon pump. † All locomotives.

respective Collieries in the First Bituminous Mine District of Pennsyl-
of October, 1877.

								VENTILATION.									
										1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubit feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10
3	95	17	38	150	17	4	6,000	7	45								
. .	122	16	9	147	5	2	6,332	4	35								
. .	130	15	15	160	17	1	7,551										
7	83	2	103	188	5	5	13,098	4	64								
. .	128	8	16	152	8	. .	7,165										
. .	11	3	2	16	2	. .	50	2	30								
. .	29	6	5	40	4	2	2,552	. .	. . .	. . .	. . . . .	. . .	. . . . .	. . .	9,000	. . .	11,300
. .	154	16	4	174	15	. .	14,759										
3	115	10	16	141	13	4	12,866	2	66								
. .	223	21	25	269	18	2	21,526										
. .	46	6	12	64	5	1	2,400	3	42	136	5,712	130	5,460	140	5,880	150	6,300
2	60	6	10	76	4	2	4,000	2	42								
. .	40	2	4	46	1	1	2,000	2	45	40	1,920						
4	40	5	5	50	5	. .	3,300	2	84	. . .	. . . . .	. . .	16,800	. . .	16,000	. . .	14,300
1	15	2	3	20	. .	. .	760	2	30	130	3,900					175	5,250
. .	65	4	11	80	5	. .											
1	120	12	13	145	7	2	2,545	. .	51	400	20,400						
6	50	4	14	68	8	1											
. .	10	2	1	13	1	. .	1,800	2	30								
. .	18	. .	1	19	1	. .	880	2	49								
. .	128	9	37	270	12	. .	. . . .	. .	40	. . .	. . . . .	. .	. . . .	250	10,000	200	8,000
4	186	20	36	242	14	. .	. . . .	. .	. . .	. . .	. . . . .	. .	. . . .	. . .	19,230	. . .	21,472
6	200	22	55	277	13	3	. . . .	3	106¼	. . .	. .	. . .	. . . .	550	33,000	600	36,000
. .	154	26	25	205	15	5	. . . .	. .	. . .	. . .	. . . . .	. . .	. . . .	. . .	19,560	. . .	19,500
2	30	. .	10	40	2	1	. . . .	. .	48	. .	. . . . .	. . .	. . .	200	9,600	229	10,800
. .	70	6	16	92	8	. .	3,831	6									
. .	100	18	17	135	7	1	7,295	4	52								
. .	75	5	20	100	9	1	3,956	4	40	. .	. . . . .	. . .	. . . . .	. . .	. . . .	140	5,600
1	15	. .	4	19	3	1	2,750	2	56								
. .	107	25	30	162	13	.	6,546	3	56								
. .	167	56	56	279	22	5	9,364	21	49								
. .	150	22	10	182	8	1	12,736	8	49								
. .	70	20	7	97	4	1	5,481	4	49								
. .	75	6	20	101	8	2	2,804	1	49								
. .	93	5	3	101	6	. .	4,200	3	48								
3	30	. .	5	35	3	1	4,800										
. .	65	4	5	74	5	1											
. .	45	. .	3	48	2	. .	715	3	49								
. .	70	10	15	95	6	3	4,000	6	120								
1	50	6	12	68	4	1	14,000										

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.											
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
	Average velocity of air current per month at inlet.	Average velocity of air current per minute per month.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current per minute at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Average velocity per minute for the month.	Outlet—size of—feet.
1	11	12	13	14	15	16	17	18	19	20	21	22
Union Coal Works,	...	...	...	...	...	...	...	...	...	...	...	45
Street's Run,	...	...	...	...	...	...	...	...	...	...	...	...
Enterprise,												
P. & C. G., C. & C. Co.,	...	...	...	...	...	...	...	...	...	...	...	64
Hampton Mine,												
Mount Egity,	...	...	...	...	...	...	...	...	...	...	...	30
Spring Hill,	...	...	...	...	...	...	...	...	...	...	...	...
Larimer, No. 1,	...	...	...	...	...	...	...	29,200	...	28,300	...	...
Foster,	...	...	...	...	...	17,700	.	...	...	17,300	.	42
South Side,	...	...	...	...	...	...	...	28,800	...	26,400	...	48
P. W. Mine,	139	...	141	4,935	150	...	...	...	...	...	...	48
Iron City,	...	...	...	...	...	...	...	...	...	...	...	...
Nixon Mine,	...	...	...	...	...	...	...	...	...	...	...	16
Shafton Coal Co.,	15,700	...	...	...	...	2,960	...	2,950	...	2,375	2,761	98
Enterprise Coal Works,	...	...	145	3,625	...	...	...	...	160	4,000	...	35½
Oak Ridge,	...	...	...	...	...	...	...	...	...	...	...	...
Pine Run,	...	...	...	...	...	...	...	...	...	...	...	...
Millwood Shaft,	...	...	150	18,000	...	*	...	...	...	...	...	41
Weinman,												
Joe Gorrow,	...	...	...	...	...	...	...	...	...	...	...	...
Colliery, No. 4,	...	...	...	...	...	...	200	10,000	200	8,000	...	40½
Shaft, No. 1,	...	...	...	...	...	...	420	18,480	430	18,920	...	39 48⅔
Shaft, No. 2,	...	...	...	...	...	...	660 230	28,690 11,132	700 250	25,000 12,000	...	40
Coal Run,	...	...	...	...	...	...	487	19,500	487	19,500	...	40
Shaft, No. 3,	...	...	...	...	...	...	...	8,920	...	9,170	...	40
Grant Mines,	...	...	...	...	...	...	...	...	...	...	...	...
Camp Hill,	...	...	...	...	...	...	...	...	...	...	...	30
Jefferson,	...	...	...	...	...		...	...	120	4,800	...	40
Buckeye Mines,	...	...	...	...	...	...	...	...	...	...	...	36
Plum Creek,	...	...	...	...	...	...	...	...	...	...	...	56
Sandy Creek,	...	...	...	...	...	...	...	...	...	...	...	49
Turtle Creek, No. 4,	...	...	...	...	...	...	...	...	...	...	...	49
Turtle Creek, No. 3,	...	...	...	...	...	...	...	...	...	...	...	49
Fulton,	...	...	...	...	...	...	...	...	...	...	...	49
Ocean Mine,	...	...	...	...	...	...	...	...	...	...	...	30
Uniondale Coke Works.												
Tremont Mine,	...	...	...	...	...	...	...	...	...	...	...	...
North Webster,	...	...	...	...	...	...	...	...		...	...	49
Fort Pitt Mines,	...	...	...	...	...	...	...	...	...	...	...	40
Midway Block Coal Co.,	...	...	...	...	...	...	...	...	...	...	...	...

* About the same.

Colleries in the First Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.									MINE—HOW VENTILATED.			REMARKS.
1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.						
Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Average number of feet passing out per month.	Number of headings.	Fan—size of—feet in diameter.	Furnace—size of—feet.	
23	24	25	26	27	28	29	30	31	32	33	34	
....	....	...	....	...	....	...	....	...	7			
....	....	..	....	...	....	...	....	...	5			
....	....	...	....	...	....	...	....	..	6			
....	....	...	....	...	....	...	....	...	1			
....	....	...	....	...	....	...	....	...	3			
29,200	....	...	....	...	....	...	28,300	..	7	....	8x 9	
....	....	...	....	...	17,500	...	15,300	...	6	....		
....	....	...	....	...	28,800	...	26,400	...	10	....	7x 8	
175	8,400	180	8,640	174	8,352	180	8,640	8,508	4	....	6x10	
....	....	...	...	...	....	...	....	...	4	....	5x12	
....	....	...	....	...	....	...	....	...	2	....	4x 4	
....	....	...	18,292	...	22,050	...	16,700	...	4	....	...	Ventilated by exhaust steam of pump.
75	2,662	...	....	...	....	100	3,550	...	9			
....	....	...	....	...	....	...	....	...	4			
....	....	...	....	..	....	...	....	...	8	....	...	Furnace.
300	15,300	*	....	...	....	...	....	...	..	12		
....	....	...	....	...	....	...	....	..	1	2½x2½	...	Furnace.
....	....	...	....	250	10,125	29	8,100	...	14			
}...	....	...	....	450	17,550	440	21,472	...	..	12		
....	....	...	....	825	33,000	900	36,000	...	20	12		
....	....	...	...	487	19,500	487	19,500	...	30	....	...	48 square feet fire bed.
....	....	...	....	115	9,800	115	9,800	...	8	....	...	Ventilated by steam jets.
...	....	...	....	...	....	...	....	...	6			
....	....	...	....	...	....	...	....	...	8			
....	....	...	....	..	....	140	5,600	..	50	....	5x12	
....	....	...	....	...	....	..	....	...	2			
....	....	...	....	...	....	...	....	...	7			
....	....	...	....	...	....	...	....	...	15			
....	....	...	....	...	....	...	....	...	10			
....	....	...	....	...	....	...	....	...	9	....	5x12	
....	....	...	....	...	....	...	....	...	6	....	4x 4	
....	....	...	....	..	....	...	....	...	2			
....	....	...	....	...	....	...	....	...	1			
....	....	..	....	...	....	...	....	...	3			
....	....	..	....	...	....	...	....	...	5			

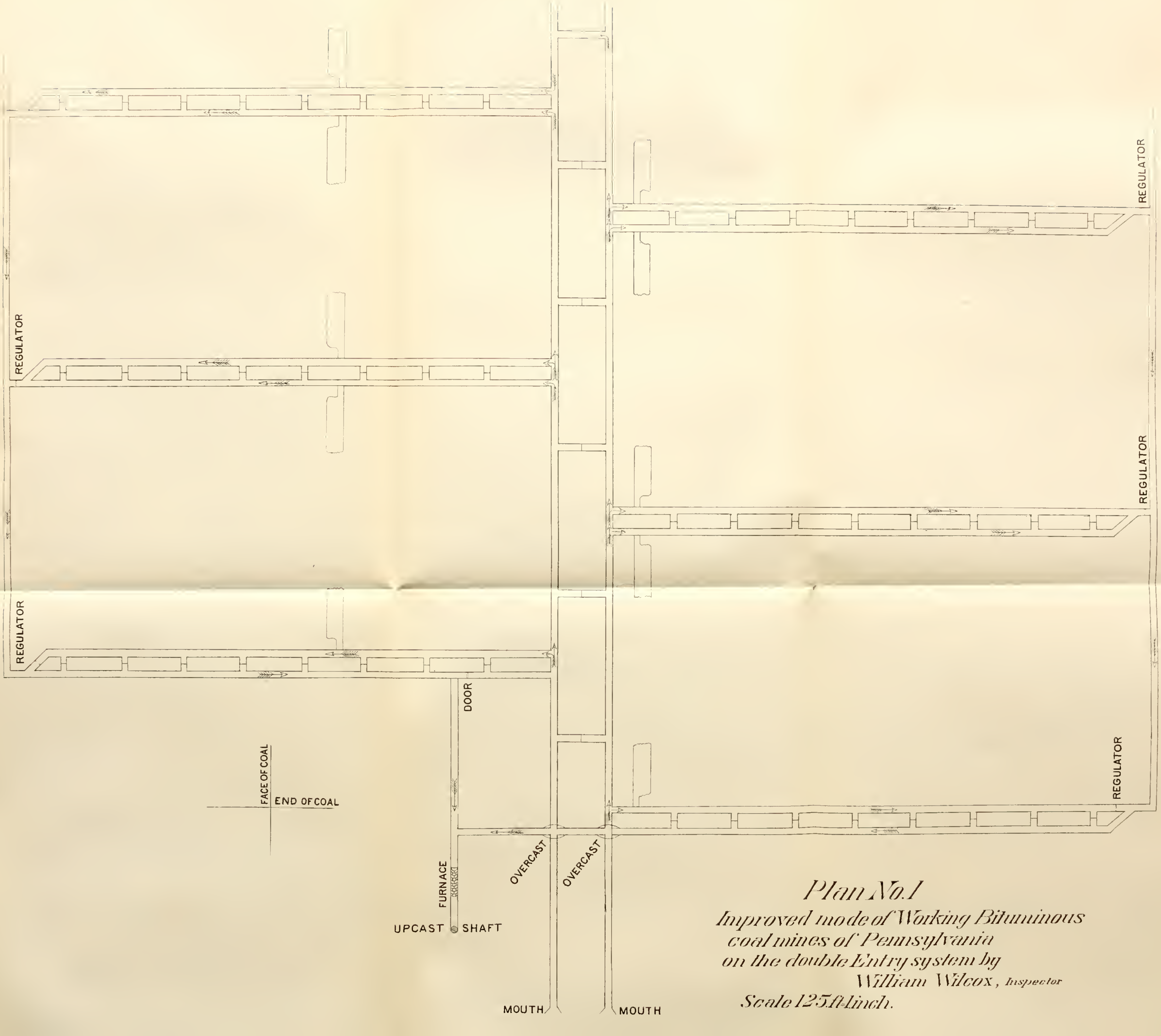
* About the same.

To the Honorable WILLIAM McCANDLESS,
Secretary of Internal Affairs:

I have visited quite a number of the collieries reported this month, and find some of them making an effort to comply with the law, so far as keeping a supply of air and timber, but in some cases, I am sorry to say, I find the ventilation very deficient. In quite a number of the reports I receive, they report no instrument to measure the air current with, and say that they have been unable to get one, on account of their great scarcity in this country.

A number of new mines are being opened on the Berlin branch of the Baltimore and Ohio Railroad, which leaves the main line at Garrat, in Somerset county, one of which is in operation, that of Thomas Rees & Co.'s. Another is being opened at Garrat, by the Buffalo Creek Coal Company, which promises to be a good mine. The Cumberland and Elk Lick Coal Company, and Thomas S. Williams, at Myersdale, Somerset county, are both new *enterprises.* They are mining a very good quality of semi-bituminous coal. Messrs. Leonard & Co. are opening a new mine near Brownsville, in Washington county. Fox, Keffer & Co. have a new mine opened and in operation, at Jacob's creek, Westmoreland county. All of which is most respectfully submitted.

I remain your most obedient servant,
WILLIAM WILCOX,
Inspector of Bituminous Mines, First District.



Plan No. 1

Improved mode of Working Bituminous
coal mines of Pennsylvania
on the double Entry system by
William Wilcox, Inspector
Scale 125 ft-1 inch.

[C.]

LIST OF ACCIDENTS *occurring in the mines of the First Bituminous Coal District of Pennsylvania, with a synopsis of the investigations or inquisitions held, together with the remarks upon the condition of the several collieries, &c., in said district, for the month of Nov., 1877:*

NAME.	Age.	Married or single.	Number of orphans.	Date of accident.	NATURE OF ACCIDENT.	Date of investigation.	REMARKS.
John Wilner, ...	30	Married,	. . . .	Nov. 14, 1877,	Hurt by falling slate, ...	. . . . .	I. D. Risher informs me, in his report, that the three accidents occurred at his mine, and were the result of carelessness on the part of the persons injured.
Barney Boyle, . . .	19	Single, .	. . . .	Nov. 20, 1877,	Foot jammed between coal wagons, .	. . . . .	
Thomas McCue, . . .	35	Married,	. . . .	Nov. 22, 1877,	Caught by falling slate, ...	. . . . .	
John Lynch, ...	33	Single, .	. . . .	Nov. 1, 1877,	Burned by explosive gas, ...	. . . . .	This accident occurred at Penn Shaft, No. 3. Said Lynch entered his working place before the fire boss had visited it, and exploded the gas by walking in with his naked light.
Frank Kelly, ...	18	Single, .	. . . .	Nov. 6, 1877,	Hand mashed while driving, ...	. . . . .	This accident happened at the Westmoreland Coal Company mines, at Irvin's station.
Sheridan West, . . .	14	Single, .	. . . .	Nov. 24, 1877,	Died on Nov. 30, from result of accident,	Dec. 10.	
John Anglam, . . .	18	Single, .	. . . .	Nov. 27, 1877,	Killed by falling slate, ...	Dec. 6.	

Sheridan West was injured at Whigham & Bailey's mine, at Dravosburgh, Allegheny county, November 24, 1877, and died at Mercy Hospital, Pittsburgh, November 30, 1877. Deceased was a driver at said mine; had forgotten his sprags, and jumped upon a passing train of coal wagons, missed his step, and fell in between the wagons, and was dragged a distance of two hundred yards before he was discovered. I am clearly of the opinion that deceased was too young to be engaged in driving a mule.

John Anglam worked at Armstrong's mine, Armstrong station, Westmoreland county; was mining coal in a room by himself; was killed by falling slate—dead when found.

A STATEMENT *of the Names, Power, Capacity and Ventilation of the*
vania, for the Month

NAME OF COLLIERY.	NAME OF OPERATOR.	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS.	Slope, Shaft, or Drift.	Pumps—how many.	Number of engines.	Horse power.
1	2	3	4	5	6	7
Hampton Mines,	Stoneberger, Armstrong, Jackson & Bro.,	Bituminous,	Drift,	...	1	...
Alaquipa,	Whigham, Bailey & Co.,	Bituminous,	Drift,	...	...	...
(Not given,)	Thomas Fox,	Bituminous,	Drift,	...	...	...
(Not given,)	Millwood Coal and Coke Co.,	Bituminous,	Shaft & slope,	2	2	120
Union Gas Coal Works,	Jacob Turner,	Bituminous.	Drift,	.	1	12
Pine Run,	Linn, Wood & Co.,	Bituminous,	Drift,	1	...	...
Hilldale,	Horner & Roberts,	Bituminous,	Drift,	2	...	...
Enterprise,	O'Neil & Co.,	Bituminous,	Drift,	...	...	...
Ocean Mines,	Thomas Moor,	Bituminous,	Drift,	...	...	...
Enterprise Coal Works,	V. Harding,	Bituminous,	Shaft,	1	1	30
	A. H. King & Bro.,	Bituminous,	Drift,	...	...	...
Shafton Mine,	Shafton Coal Company.	Bituminous,	Shaft,	...	...	...
Mt. Equity,	William Lauder,	Bituminous,	Drift,	...	...	...
Ft. Pitt Coal & Coke Co.	Fort Pitt Coal Company,	Bituminous,	Drift,	...	...	...
P. U. Mines,	Huntsman, Miller & Co.,	Bituminous,	Drift,	...	...	...
North Webster,	John Gillmore,	Bituminous.	Drift, syphon	...	...	...
Mansfield C. and C. Co.,	Mansfield Coal and Coke Co.,	Bituminous,	Drift,	1	1	12
No. 1 Shaft,	Pennsylvania Gas Coal Co.,	Bituminous,	Shaft & slope,	...	...	...
No. 2 Shaft,	Pennsylvania Gas Coal Co.,	Bituminous,	Shaft & slope,	...	2	...
No. 3 Shaft,	Pennsylvania Gas Coal Co.,	Bituminous,	Shaft & slope,	1	1	...
No. 4 Shaft,	Pennsylvania Gas Coal Co.,	Bituminous,	Drift,	...	...	...
Coal Run,	Pennsylvania Gas Coal Co.,	Bituminous,	Drift,	...	...	...
South side,	Westmoreland Coal Company,	Bituminous,	Drift,	...	...	...
Foster Mine	Westmoreland Coal Company,	Bituminous,	Slope,	1	2	...
Spring Hill,	Westmoreland Coal Company.	Bituminous,	Drift,	...	...	...
Larimer's	Westmoreland Coal Company,	Bituminous,	Drift,	...	...	...
Lane,	Langdon & Morly, Landron C. Co	Semi-bitum.	Drift,	...	...	...
Sterling Works,	Brown & Cochran,	Bituminous.	Drift,	...	...	...
Sterling Works, No, 2,	Brown & Cochran,	Bituminous,	Drift,	...	...	...
Sterling Works, No. 3,	Brown & Cochran,	Bituminous,	Drift,	...	...	...
P. & C. G. C. & C. Co.,	P. and C. G. C. and C. Co.,	Bituminous,	Slope & shaft,	3	4	...
Street's Run,	I. D. Risher,	Bituminous,	Drift,	...	...	...
Iron City,	Phillips & Mittenzwey,	Bituminous,	Drilt,	2	1	...
Nixon Mine,	Chartiers Valley Coal Company,	Bituminous,	Drift,	...	...	...
	Foster, Clark & Wood,	Bituminous,	Drift,	...	...	...
Camden Mine,	Lysle & Sons.	Bituminous,	Drift,	...	...	...
	Redman & Facett,	Bituminous,	Drift,	...	...	...
Keystone Mine,	Keystone Mining Company,	Semi-bitum.	Drift,	...	...	...
Cumb'd & Elklick C.Co.	C. & E. L. C. Company,	Semi-bitum.	Drift,	...	...	...
	Thomas, Rees & Co.,	Semi-bitum.	Drift,	...	...	...
	Frick Mine, No. 1,	Bituminous.	Drift,	...	...	...
	Frick's Mine, No. 2,	Bituminous,	Slope,	...	...	...
Jackson Mines Co.,	Jackson Mines Company,	Bituminous,	Drift,	...	...	...
Waverly C. and C. Co.,	Waverly Coal and Coke Co.,	Bituminous,	Drift,	.	...	...
Jacobs Creek Mines,	Fox, Keffer & Co.,	Bituminous,	Drift,	...	...	...
	Chas. H. Armstrong & Sons,	Bituminous,	Drift,	...	...	...
Buck's Run Mine,	Joseph Walton & Co.,	Bituminous,	Drift,	1	1	40
Robbins & Jenkins,	Robbins & Jenkins,	Bituminous,	Drift,	...	...	...

Respective Collieries in the First Bituminous Mine District of Pennsyl-
of November, 1877.

								VENTILATION.									
										1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
Boilers—How many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
. .	50	6	8	64	3	. .	1,142										
. .	115	15	10	140	7	2	3,200	6	48								
. .	25	1	1	27	2	. .	2,500	2	42								
6	60	4	10	94	9	. .	. . . .	. .	51	343	17,493						
1	35	. .	5	40	3												
1	123	5	11	139	7	2	8,789										
1	200	. .	37	237	14	1	10,400	2	54	408	22,032	22032	22,032	22032	22,032	430	23,230
. .	130	10	13	153	17	1	6,397										
. .	85	5	5	95	3	. .	1,464	3	45	130	5,850						
1	17	. .	3	20	. .	. .	880	2	20	329	6,580	268	5,360	162	3,240	410	8,200
. .	15	. .	5	29	3	. .	1,287										
. .	67	4	5	76	4	. .	4,344	. .	45	400	18,000	350	15,750	300	13,500	350	15,730
. .	20	7	4	33	2	1	2,228	2	30								
.	70	10	15	95	7	. .	2,400	3	40								
. .	48	7	11	66	5	1	2,080	3	42							150	6,300
. .	65	. .	4	69	3	. .	3,561	3	49								
1	100	10	34	144	10	3	6,433	13									
. .	186	20	36	243	14	. .	. . . .	3	48	380	18,240	390	18,720	395	18,960	395	18,965
6	200	22	55	277	13	3	. . . .	3	52	600	31,200	550	28,600	550	28,600	550	28,600
2	50	. .	10	60	2	1	. . . .	2	48	223	10,704	208	9,984	208	9,984	220	10,560
. .	228	5	37	270	12	. .	. . . .	. .	40	125	5,000	150	6,000	187	7,480	187	7,480
. .	154	26	42	222	15	5	. . . .	9	. .	. . .	19,500	. . .	19,500	. . .	21,000	. . .	21,000
. .	192	22	25	239	18	2	20,803	. .	. . .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	20.750
3	115	10	16	141	13	3											
. .	24	5	2	31	2	2	2,423										
. .	139	19	19	179	15	. .	13,603										
. .	45	5	. . .	50	5	. .	3,000	2	48	85	4,080	85	4,080	87	4,176	87	4,176
. .	36	4	6	46	4	. .	7,298										
. .	39	4	8	51	10	. .	7,197										
. .	28	11	6	45	4	. .	6,357										
7	77	2	107	186	5	5	13,569	4	72								
. .	120	16	10	146	2	5	7,234	4	37								
2	54	4	10	68	3	3	1,920	2									
. .	30	4	. . .	34	1	1	1,600	2	6x7								
. .	95	6	12	113	8	1	. . . .	3	6x7	210	8,820						
. .	100	10	23	133	11	. .	. . . .	8	6x8	110	5,280						
. .	130	12	10	152	6	. .	. . . .	3	6x8	120	5,760						
. .	100	15	12	127	6	. .	. . . .	4	7x9	60	3,780						
. .	100	. .	9	109	4	. .	. . . .	2	6x6⅔	60	2,400						
. .	25	. .	3	28	1	. .	. . . .	2	5x7	180	6,300						
. .	30	3	. . .	33	3	. .	. . . .	2	6x7	250	10,500						
. .	45	5	8	58	4	. .	. . . .	3	6x7⅛	340	15,300						
. .	34	6	4	34	2	. .	. . . .	3	6x7	125	5,250						
. .	50	6	9	65	5	. .	. . . .	4	7x8	350	19,600						
. .	20	3	3	26	1	. .	2,004	2	6x7	425	17,850						
. .	120	10	15	145	8	. .	. . . .	4	6x7½	160	7,200						
3	140	12	23	175	11	. .	3,600	6	6x8	200	9,600						
. .	110	10	20	140	8	4	8,800	8	6x8								

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION,											
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
	Average velocity of air current per month at inlet.	Average velocity of air current per minute per month.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current per minute at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Average velocity per minute for the month.	Outlet—size of—feet.
1	11	12	13	14	15	16	17	18	19	20	21	22
Hampton Mines,												
Alaquipa,												
(Not given,)												42
(Not given,)	17,000		300	14,000								48
Union G. C. Works,												
Pine Run,												
Hilldale,	413½											
Enterprise,												
Ocean Mines,												35
Enterprise C. Works,	292¼		258	6,450	141	3,525	79	1,975	248	6,200	181½	32½
Do. do.												
Shafton Mine,	350		230	10,530	225	10,087	250	11,250	215	9,637	230	
Mt. Equity,												22½
Ft. Pitt C. and C. Co.,												42
P. U. Mines,									140	5,300		48
North Webster,												49
Mansfield C. & C. Co.,												48
No. 1 Shaft,			435	19,140	448	21,000	440	21,120	440	20,000		48
No. 2 Shaft,			783	31,700	750	30,006	750	30,000	750	30,000		40
No. 3 Shaft,			170	8,500	160	7,800	160	7,800	160	7,800		42
No. 4 Shaft,			200	8,000	250	10,000	300	12,000	300	72,000		40½
Coal Run,			487	19,500	487	19,500	525	21,000	525	21,000		40
South Side,										18,000		
Foster Mine,				25,320		37,850		43,500		34,320		
Spring Hill,												
Larimer's,												
Lane,	88		60	3,200	60	3,200	60	3,200	60	3,200	60	16
Sterling Works,												
Sterling Works, No. 2,												
Sterling Works, No. 3,												
P. & C. G. C. & C. Co.,												4
Street's Run,												
Iron City,												
Nixon Mine,												4x4
Do.				6,400								45
Camden Mine,				5,100								6x8
Do.				5,000								6x3
Keystone Mine,			30	1,680								6x10
Cum'd & Elklick C. Co				1,800								6x6
Do. do.				3,000								20
Do. do.				7,040								6½x8
Do. do.			65	1,040								3½x4
Jackson Mines Co.,			110	4,400								6x8
Waverly C. & C. Co.				10,000								7x8
Jacobs Creek Mines,				8,160								6x10
Do. do.			100	3,500								5x6
Buck's Run Mine,			125	5,250								6x7
Robbins & Jenkins,												

Collieries in the First Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.									MINES -HOW VENTILATED.			REMARKS.
1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.						
Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Average number of feet passing out per month.	Number of headings.	Fan—size of—feet in diameter.	Furnace—size of—feet.	
23	24	25	26	27	28	29	30	31	32	33	34	
...	...	...	...	...	...	...	...	...	8			
...	...	...	...	...	...	...	...	...	...	...	49	
...	...	...	...	...	...	...	...	...	1	...	24	
300	14,400	...	...	...	...	...	...	...	...	12		
...	...	...	...	...	...	...	...	...	8	...	120	
...	...	...	...	...	...	...	...	...	9	...	192	
170	5,850	...	...	...	...	...	...	...	7	...	5x5	
165	5,362	100	3,250	50	1,625	146	5,745	3,995½	9			
210	29,580	175	17,150	170	16,660	160	15,680	17,518	98			
...	...	...	...	...	...	...	...	...	1			
...	...	...	...	...	...	...	...	...	3			
...	...	...	...	...	...	180	8,640	...	3	...	60	
...	...	...	...	...	...	...	...	...	1			
...	...	...	...	...	...	...	...	...	3			
400	19,533	448	21,504	440	26,620	440	21,120	...	33	12		
1,175	47,000	1,125	45,000	1,125	45,000	1,125	45,000	...	20	12		
200	8,400	185	7,770	170	7,140	170	7,140	...	8	...	...	Ventil'd by steam jets.
200	8,100	250	10,125	300	12,150	300	12,150	...	19			
487	19,480	487	19,480	529	21,000	525	21,000	...	30	...	48	Fire bed.
...	34,550	...	33,700	...	35,400	...	33,200					
...	44.000	...	44,000	...	44,000	...	44,000	...	...	12		
...	4,800	...	6,400	...	5,600	...	5,600					
...	36,870	...	36,500	...	45,300	...	34,600					
400	6,400	400	6,400	400	6,400	450	7,200	6,600	3	...	16	
72												
...	...	...	...	...	...	...	...	...	...	...	4x4	
...	...	...	...	...	...	...	...	...	...	...	5x12	
...	...	...	...	...	...	...	...	...	2			
220	9,900	...	...	...	...	...	...	...	7		5x6	
130	6,240	...	...	...	...	...	...	...	12			
125	7,000	...	...	...	...	...	...	...	4			
65	3,900	...	...	...	...	...	...	...	8			
75	2,700	...	...	...	...	...	...	...	7			
400	8,000	...	...	...	...	...	...	...	2			
220	11,440	...	...	...	...	...	...	...	4			
770	10,780	...	...	...	...	...	...	...	5			
160	7,680	...	...	...	...	...	...	...	3			
380	21,280	...	...	...	...	...	...	...	10			
300	18,000	...	...	...	...	...	...	...	3			
210	6,300	...	...	...	...	...	...	...	7			
200	8,460	...	...	...	...	...	...	...	10			
...	...	...	...	...	...	...	...	...	7			

To the Hon. WILLIAM MCCANDLESS,
Secretary of Internal Affairs:

I very much regret the number of accidents. A number of them occurred through the want of proper care on the part of the parties injured. The greater part of them are caused by falling slate and coal. The slate overlaying the Pittsburgh seam of coal from one to one and one half feet thick, is very dangerous, and requires the miners' careful attention, or loss of life or limb may result. It is very important that timber be furnished to the men, and used with care and judgment, and I would hereby call the attention of mining bosses to the necessity of enforcing this rule among the miners, as a want of proper discipline in this matter may be attended with great danger to the men.

Nearly all the mines have been in operation during the month of December, and a great amount of coal has been mined, but owing to many of the operators not reporting as well as they promised in the first report which I made to you, I am unable to give the amount as I would wish. I am sorry to say, that the operators are not giving the new ventilation law that attention its importance demands. Not over twenty per cent. of them are reporting, thus ignoring section fifth of said law, which plainly says, that reports shall be made monthly to the inspector of their district. And unless they shall do so, I shall be compelled to enforce compliance with the requirements of the law. The law is very defective, as some of the operators very *foolishly* shelter themselves behind section eighteen, giving the inspector unnecessary trouble and annoyance, and claiming that they do not come under the law.

Considering the unscientific manner in which many of the mines are opened and operated, and as a number of new mines are being opened in my district, I have deemed it of importance to make a few drawings of an improved mode of ventilation, my object being to show that other and better plans exist at present than those commonly used, and I hope by so doing to stimulate others to study and bring out better plans. Nos. 1, 2, and 3, are, in some respects, new ideas, and, I think, an improvement on the present system. It will be seen at a glance, that these plans dispense with the use of so many doors, they being very objectionable, although it is sometimes necessary to use a number of them. They being a source of trouble and annoyance to the mine bosses, should stimulate owners and superintendents to adopt a better system of ventilation. In these plans, the air is circulated around the workings, and is divided by means of regulators, so that each group of men receive their proper share of pure air, which is then returned to the up-cast shaft, and never used a second time.

The present system of mining in practice at many of the mines should be abandoned. Fully one third of the coal is left in the mine, while operators are buying new coal fields, and incurring great expense in opening them.

The plan of check-house and railroad track, is one in use at the Hampton mines, near Wilkinsburg, Allegheny county, and was adopted by Mr. John Blythe, superintendent of that company.

The Murphy Fan Ventilator is in use at a number of mines east and west, and, I believe, gives general satisfaction where it is introduced. This fan can be changed from an exhauster or blower without stopping the machinery, which is a great advantage in the use of a fan for ventilating mines. It is manufactured by Fraser & Chalmers, 139 and 145 Fulton street, Chicago, Ill.

On my visit to the Foster slope, owned and operated by the Westmoreland Coal Company, located at Penn Station, Westmoreland County, I had an opportunity of seeing the Champion Ventilator Fan in operation. The one in use is six feet diameter, and is acting as a blower or forcing fan. It is erected over the top of a small shaft, having been in operation about three months, and is giving great satisfaction. The superintendent informed me that in a fair trial, the fan acting as an exhauster, over sixty thousand cubic feet of air was produced per minute. The air courses are eleven thousand feet long, with an average of thirty-five feet sectional area. One trial was made by me, with the engine running one hundred and fifty revolutions per minute. I found size of opening forty-two square feet; velocity, seven hundred and ninety-five, showing thirty-three thousand three hundred and ninety feet of air per minute in circulation. The anemometer used is Biram's four-inch, new. The fan runs very smoothly, and produces all the air required for said mine.

The following circular was sent to all operators and mine superintendents in the First Bituminous District:

MANSFIELD VALLEY, ALLEGHENY COUNTY, PA.,
Jan. 2, 1878.

To the Operators and Mine Superintendents of the First Bituminous Coal District of Penn'a:

GENTLEMEN: I desire to call your attention to the fact that some of the most important provisions of the Ventilation law, entitled "An act providing the means of securing the health and safety of persons employed in the bituminous coal mines of Pennsylvania," are not receiving that attention that their importance demands.

Section four requires that you shall provide ample means of ventilation, affording one hundred cubic feet of air per minute for each and every person employed in said mine, which shall be circulated around the mine headings and cross-headings; and section five of said law requires that it shall be the duty of the mining bosses to measure the air current at least once a week at the inlet and outlet, and at or near the face of the headings, and keep a record of such measurements and report the same to the inspector of his district, once in each month, the inspector having furnished blanks for that purpose, together with a copy of the Ventilation law. Section five also requires that it shall be the duty of the mining boss to see that sufficient timber is furnished of suitable lengths and sizes for the places where they are to be used and placed in the working places of the mines.

It is very important that section five of the law be complied with, and that returns of air measurement be sent to this office, not later than the fifth day of each month, in order that I may tabulate the results in my monthly reports, as I am by law required. It is imperative that superintendent or mining boss have some means of measuring the air current, and a good anemometer is the best instrument for that purpose. Any person desiring information as to the mode of taking air measurements in the mines, will will be cheerfully informed upon application. A few explanations as to how to read the measurement is all that is required by any one who knows the first rules of arithmetic. Section four of the act requires for every mine ample means of ventilation, affording one hundred cubic feet of air per minute for each and every person employed in the mines. To carry out this provision of the law, it is very essential that the mine be ventilated otherwise than by natural ventilation, as all experience teaches that natural ventilation is not reliable for the mines in this district for any length of time, even under the most favorable circumstances. Therefore every mine should have a ventilating furnace or fan and shaft, the deeper the shaft the better for furnace ventilation. It is frivolous for mine owners to attribute the foul air in the mine to the weather outside. A good supply of fresh air can be secured and circulated around the face of the workings, regardless of the weather outside, and I have no hesitation in saying that on the score of economy it is far cheaper and better in the long run to have mines properly ventilated.

The present law admits of no guessing as to the condition of the air in the mine. The law requires that the air shall be measured, and in order to do so, the mine boss *must* have the necessary instruments. Each week he can then ascertain if the amount of air circulating in his mine equals that required by law; and if that is properly distributed around the face of the workings, there can be no just cause of complaint. Superintendents and mining bosses who thoroughly understand their business will find no difficulty in arranging their work so as to enable them to comply with the requirements of the law.

Quite a number of mines in the First district have eight or nine openings, and yet the ventilation is not good. It is false economy to make so many openings. All that is necessary is two or three good openings for ventilation. These unnecessary openings have cost the operators large sums of money, one half of which would have sunk a shaft and erected a furnace, which would insure a constant supply of fresh air. Another evil I would call your attention to, is that of driving air courses too wide; their great liability to close in mines worked on the single entry system, is very objectionable.

I would most respectfully call your attention to the opinion of the Attorney General, and my duties in the premises, and hope you will comply without further delay to the provisions of the law:

MANSFIELD, *December 1, 1877.*

HON. GEORGE LEAR, *Attorney General,*
Harrisburg, Pa.:

DEAR SIR: Under the provisions of section five of an act of Assembly, approved the 18th day of April, A. D. 1877, entitled "An act providing the means of securing the health and safety of persons employed in the bituminous coal mines of Pennsylvania," are the owners, or agents, to furnish sufficient timber of suitable lengths and sizes for the places where they are to be used, and place them in the working places of the mines, *at their own expense?*

The custom at some of the mines is for the miners to take the pit post from the outside of the mines to their respective places of working therein, and there cut them of proper lengths, without extra compensation. Since the passage of said act the miners desire to discontinue said custom, and compel the owners and agents to furnish the timber, as directed in section five.

As mine inspector under said act, have I the authority to direct and compel the owners, or agents, or mining bosses, to furnish timber, as aforesaid, at their own expense, and so the miners will not have to handle it until it is placed in the working places of the mines? As there will probably be trouble about the matter, you will greatly oblige me by informing me of my rights and duties in the premises.

Very respectfully, your obedient servant,

WILLIAM WILCOX,
Inspector of Mines, First District.

HARRISBURG, *December 7, 1877.*

WILLIAM WILCOX, Esq.:

DEAR SIR: Yours of the 1st instant is received. The owners, or agents, of the mines must employ a mining boss, as directed in the fifth section of the act of April 18, 1877, and it is his duty, among other things, to see that sufficient timber is furnished of suitable lengths and sizes for the places where they are to be used, and placed in the working places of the mines. Of course, this timber must be furnished at the expense of the parties who are required to furnish it, and the mining boss must see that it is done, and it is your duty to see that the mining boss, and the owners, lessees, or agents, perform their duties, and to notify them, in case of failure, as required by section thirteen of said act, and you have no discretion whether you shall prosecute or not, but on failure of any party notified to remedy anything complained of, it is your duty to institute a prosecution under the sixteenth section of the act. The law says you shall do it, and the power to prosecute is the principal, if not the only, means to enforce the law.

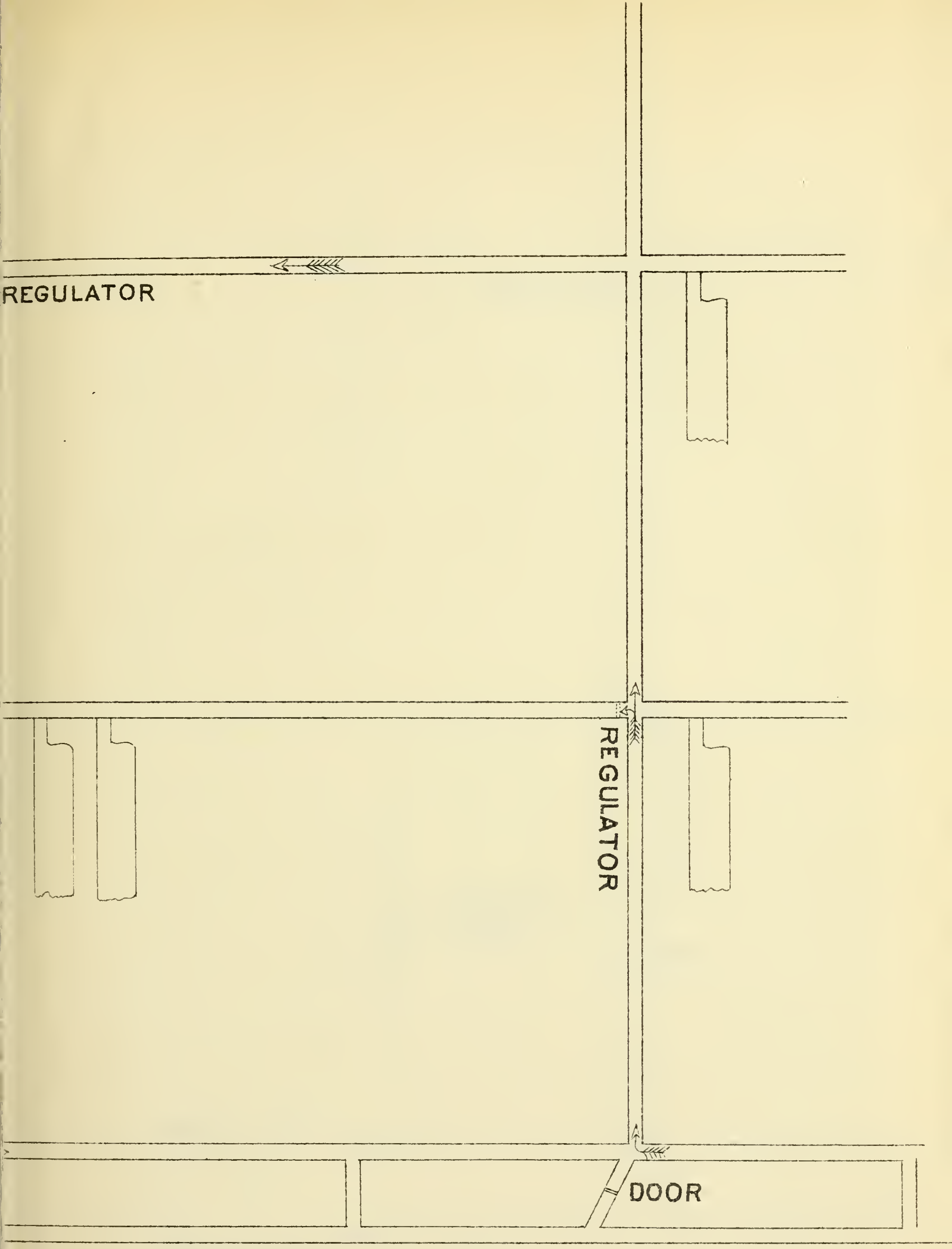
Yours truly,

GEORGE LEAR,
Attorney General.

In addressing you through the medium of this circular, it is with the hope that all the requirements of the Ventilation law will be complied with, and in no case shall I be compelled to resort to the powers conferred by the law to enforce its provisions.

Very respectfully yours,

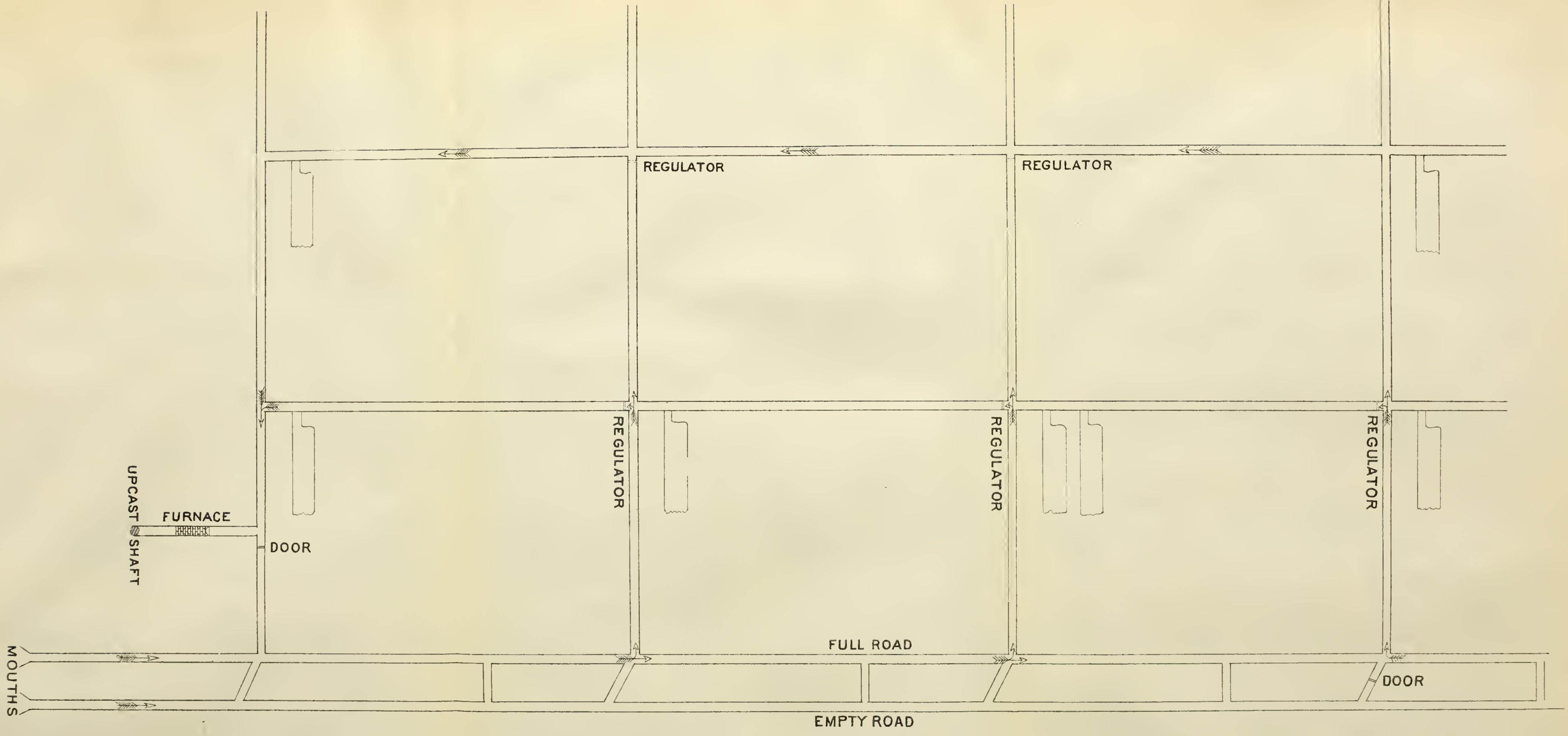
WILLIAM WILCOX,
Inspector of Bituminous Mines, First District.

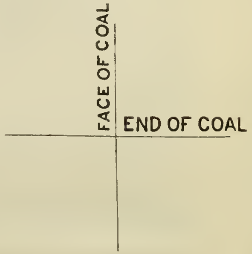


tuminous

r

Inspector





Plan No. 2

Improved mode of Working Bituminous coal mines of Pennsylvania on the single Entry system by William Wilcox, Inspector

Scale 125 ft=1 inch.

LIST OF ACCIDENTS *occurring in the Mines of the First Bituminous Coal District of Pennsylvania, with a synopsis of the investigations or inquisitions held, together with the remarks upon the condition of the several collieries, &c., in said district, for the month of December, 1877.*

NAME.	Age.	Married or single.	Number of orphans.	Date of accident.	NATURE OF ACCIDENT.	Date of investigation.	REMARKS.
George W. Gould,	37	Married,		Nov. 16,	Loss of two fingers,		Wagons jumped the track, and caught his hand. This accident occurred at Gumbert & Huey's mines.
Charles Walters,	35	Married,		Dec. 19,	Back injured by falling slate,		At Westmoreland Coal Company's mines, Larimer Station.
James Maxwell,	26	Married,		Dec.,	Foot injured by coal wagons,		The last four accidents occurred at James O'Neil's mines.
George Heath,		Single,			Leg injured by falling slate,		
James Lynch,		Single,			Rib broken by coal wagons,		
Fred. Beckman,		Married,		Dec. 24,	Leg hurt by falling slate,		
John Williams,	50	Married,			Injured by falling slate,		At Chas. H. Armstrong's mines, Westmoreland county.
Edward Galespie,	45	Married,		Dec. 22,	Killed by falling slate and coal,		At the Black Diamond mines, owned by William H. Brown's heirs.
John D. Snyder,	38	Married,		Dec. 10,	Hurt by falling slate,		At the Black Diamond mines.
Edward Graham,		Married,		Nov. 23,	Hurt slightly by falling slate,		At Black Diamond mines.
Alex. Rothrock,				Dec. 22,	Hurt slightly by falling slate,		At Black Diamond mines.
Jacob Knoll,	45	Married,		Dec. 24,	Killed by coal wagons,	Dec. 27,	At Keeling & Co.'s mines, South Side, Pittsburgh.
Daniel M. Cann,	38	Married,		Dec. 20,	Foot bruised by falling slate,		At H. B. Hay's mine, Beck's run.

Jacob Knoll, deceased, was foreman at Keeling & Co.'s river tipple, and was crossing the track, when he stumbled, and fell before a moving train of coal wagons. Injured fatally, and died the next day. No inquest was held. Investigation held December 27th. Verdict, accidental.

Edward Galespie, deceased, was mining coal at the Black Diamond mines, and was working in a room by himself. When called on, did not answer, and was found by Edward Graham lying under a fall of slate and coal. Assistance was called; but, upon being removed, it was found that life had fled. Investigation held December 24th. Verdict, accidental; but recommended that instructions be given to all the miners to sprig the coal, to prevent accidents in future.

A STATEMENT *of the names, power, capacity, and ventilation of the*
vania, for the month

NAME OF COLLIERY.	NAME OF OPERATOR.	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS.	Slope, shaft, or drift.	Pumps—how many.	Number of engines.	Horse-power.
1	2	3	4	5	6	7
Millwood C. and C. Co.,	Millwood Coal Company,	Bituminous,	Shaft,	1	1	...
Corey Coal Company,	Corey Company,	Bituminous,	Drift & slope,	...	...	...
Amity,	J. C. Risher & Co.,	Bituminous,	Drift,	1	1	...
Keystone C. and M. Co.,	Keystone Coal Company,	Semi-bitum.	Drift,	...	...	...
Enterprise,	O'Neil & Co.,	Bituminous,	Drift,	...	...	...
	Horner & Roberts,	Bituminous,	Drift,	2	...	...
Waverly,	J. B. Corey,	Bituminous,	Drift,	...	...	...
Shafton,	Shafton Coal Company,	Bituminous,	Shaft,	...	...	...
Larimer Station,	Westmoreland Coal Company,	Bituminous,	Drift,	...	...	...
Foster,	Westmoreland Coal Company,	Bituminous,	Slope,	1	2	37
Spring Hill,	...	Bituminous,	Drift,	...	...	...
Southside,	...	Bituminous,	Drift,	...	...	...
Armstrong's,	Charles H. Armstrong,	Bituminous,	Drift,	...	...	...
	James O'Neil,	Bituminous,	Drift,	...	...	...
Streets Run,	I. D. Risher,	Bituminous,	Drift,	...	...	...
Enterprise,	V. Harding,	Bituminous,	Shaft,	1	1	30
Green Springs,	Redman & Fawcett,	Bituminous,	Drift.	...	1	35
Allison Mines,	J. Allison,	Bituminous,	Drift,	...	...	...
Bellevine,	Gumbert & Huey,	Bituminous,	Drift,	1	...	...
Plum Creek Mine,	N. Y. and Cleveland Gas Coal Co.	Bituminous,	Drift,	3	...	...
Sandy Creek,	...	Bituminous,	Drift,	...	...	...
N. Y. and Cleveland,	N. Y. and Cleveland Gas Coal Co.	Bituminous,	Drift,	...	...	...
No. 4,	N. Y. and Cleveland Gas Coal Co.	Bituminous,	Drift,	...	...	...
Sandy Run,	Sandy Run Coal Company,	Semi-bitum.	Drift.	...	...	...
Nixon Mines,	Chartiers Valley Coal Company,	Bituminous.	Drift.	...	...	...
Pine Run,	Lynn, Wood & Co.,	Bituminous,	Drift,	1	...	...
Enterprise,	Hartley & Marshall,	Bituminous,	Drift,	1	1	40
Wenona Mines,	William Skilben,	Bituminous,	Drift,	...	...	...
Old Eagle,	W. H. Brown's Heirs,	Bituminous,	Drift,	...	...	...
P. W. Mine,	Huntsman, Miller & Co.,	Bituminous,	Drift,	...	...	...
Mount Equity,	Lander,	Semi-bitum.	Drift,	...	...	...
Fort Pitt Coal Company	Fort Pitt Coal Company,	Bituminous,	Drift,	...	...	...
Slope No. 1,	H. C. Frick,	Bituminous,	Slope,	1	1	...
Drift No. 1,	H. C. Frick,	Bituminous.	Drift,	...	...	...
Drift No. 1,	Brown & Cochran,	Bituminous,	Drift,	...	...	...
Drift No. 2,	Brown & Cochran,	Bituminous,	Drift,	...	...	...
Drift No. 3,	Brown & Cochran,	Bituminous.	Drift,	...	...	...
Spring Grove,	Cochran & Kester,	Bituminous,	...	...	...	...
Jackson Mines,	Jackson Mines Company,	Bituminous.	...	...	...	...
Tyrone Mines,	Laughlin & Co.,	Bituminous,	...	...	...	...
Waverly C. and C. Co.,	J. B. Corey & Co.,	Bituminous,	...	...	...	...
Jacob's Creek Mines,	Fox, Kefer & Co.,	Bituminous,	...	...	...	...
Ocean Mines,	Thomas Moor,	Bituminous.	...	...	...	...
Beck's Run Mine,	Joseph Walton & Co.,	Bituminous,	...	1	1	60
Keeling's Mines,	Joseph Keeling & Co.,	Bituminous,	...	...	3	...
Oak Hill Mines,	Dickson, Stewart & Co.,	Bituminous,	...	...	...	...
White Ball,	Y. C. H. Coal and Coke Company,	Bituminous,	...	1	...	...
Penney's,	John Penney,	Bituminous,	...	1	1	...
Cornell & Herling,	W. H. Brown's Heirs,	Bituminous,	...	1	3	...
	James O'Neil,	Bituminous,	...	...	1	1
Osceola Mine,	Westmoreland Coal Company,	Bituminous.	...	...	...	...
Alps Coal Company,	N. J. Bigley,	Bituminous,	...	...	...	...
Cliff Mines,	Scully & Co.,	Bituminous,	...		...	...
Black Diamond,	W. H. Brown's Heirs,	Bituminous,	...	...	...	...
Shaft No. 1,	Penn Gas Coal Company,	Bituminous,	Shaft,	...	...	...
Shaft No. 2,	Penn Gas Coal Company,	Bituminous,	Shaft & slope	...	1	...
No. 4,	Penn Gas Coal Company,	Bituminous,	Drift,	...	...	...
Coal Run,	Penn Gas Coal Company,	Bituminous,	Drift,	...	...	...
Buckeye,	John M. Cochran,	Bituminous,	Drift,	1	...	...
Pittsburgh and Noblestown Plank Road Pit,	Thomas Fox,	Bituminous,	Drift,	...	...	...
Pittsburgh and Noblestown Plank Road Pit,	John Carlin,	Bituminous,	Drift,	...	...	...

respective collieries in the First Bituminous Mine District of Pennsyl-
of December, 1877.

								VENTILATION.									
										1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10
6	60	6	10	76	7	. .	. . . .	. .	51	500	15,500	250	14,000				
. .	49	9	7	65	10	. .	3,200	5	100								
1	164	22	30	2,016	13	2	9,903	2	56								
. .	90	. .	16	106	7	. .	6,000										
. .	130	10	28	168	19	1	9,004										
1	185	. .	11	225	15	1	11,800	2	54	380	20,520						
. .	42	2	5	49	4	. .	. . . .	3	48								
. .	65	4	5	74	4	. .	3,159	. .	45	275	12,375	250	11,250	300	13,500	300	13,500
. .	128	19	19	166	. .	. .	12,525										
3	114	10	16	140	. .	. .	11,542	. .	. .	. .	45,000						
. .	24	5	2	31													
. .	167	22	25	314	. .	. .	19,570										
. .	145	27	7	179	9	2	4,200										
. .	110	30	22	162	7	. .	9,411	4	26								
. .	120	16	10	146	2	5	5,000										
1	20	. .	3	23	. .	. .	740	2	22	430	9,675	349	7,852	213	4,793	339	7,627
2	110	6	22	132	8	. .	. . . .	4									
. .	25	5	10	40	2	1	980	4	56								
. .	70	20	11	101	11	. .	7,800	8	42								
. .	107	25	30	162	15	. .	6,178	3	56								
.	170	56	56	282	23	5	8,803	21	42	. . .	. . . .	. . .	. . . .	. . .	. . . .	98	3,969
. .	12	1	1	14	1	. .	1,390	4	49								
. .	170	20	10	200	8	1	6,964	7	42								
. .	48	5	. .	53	5	. .	2,500	2	48	100	4,800	100	4,800	100	4,800	120	5,760
. .	35	. .	5	40	1	1	1,200	2	48								
1	121	8	13	142	8	2	9,295										
2	90	10	16	116	6	. .	6,000	2	33.15	302.5	10,227	311	10,408	307	10,177	321	10,641
. .	10	4	. . .	14	1	. .	600										
. .	40	5	7	52	3	. .	3,118	4	39	265	10,335						
. .	48	8	13	69	5	1	2,720	3	42	140	5,800						
. .	22	7	11	33	2	1	2,500	2	30								
.	65	4	14	82	6	1	3,477	4	42	15	630	20	840	25	1,050	25	1,050
2	45	. .	. . .	. . .	4	1	. . . .	3	45	340	15,300						
. .	30	. .	. . .	. . .	. .	. .	. . . .	3	41	250	10,250						
. .	36	. .	. . .	. . .	. .	. .	. . . .	4	50	150	7,500						
. .	40	. .	. . .	. .	. .	. .	. . . .	3	48	105	5,040						
. .	30	. .	. . .	. . .	. .	. .	. . . .	4	42	385	16,170						
. .	24	. .	. . .	. . .	. .	. .	. . . .	6	40	150	6,000						
. .	24	. .	. . .	. . .	. .	. .	. . . .	4	42	125	6,250						
. .	40	. .	. . .	. . .	. .	. .	. . . .	3	43	20	860						
. .	50	6	7	63	5	1	. . . .	3	56	380	11,280						
. .	20	3	3	26	1	. .	2,004	3	39	460	17,920						
. .	56	8	12	76	6	1	. . . .	3	45	130	5,850						
3	140	15	25	180	15	. .	. . . .	6	48	200	9,600						
6	350	25	33	408	18	. .	. . . .	9	48								
. .	40	3	12	55	3	4	. . . .	5	42								
2	90	10	14	114	13	1	. . . .	3	49	180	8,870						
1	100	10	18	128	11	. .	. . . .	4	40	80	3,020						
5	160	18	32	210	9	1	. . . .	3	40	125	5,000						
. .	115	22	21	258	8	. .	. . . .	3	26	. . .	. . . .	. . .	. . . .	130	3,380		
. .	40	1	9	50	5	1	. . . .	2	48	50	2,400						
. .	43	6	10	59	3	2	836	5	45	. . .	. . . .	. . .	. . . .	. . .	. . . .	120	5,400
. .	60	6	12	78	6	1	. . . .	2	39	. . .	. . . .	. . .	. . . .	. . .	. . . .	245	955
. .	80	. .	9	89	5	1	4,760	3	48	200	9,600						
. .	180	20	36	236	14	. .	. . . .	2	31½	127	4,000	205	6,470	410	12,686	205	6,470
									28⅓	115	3,300	170	4,830	135	3,636	170	4,830
									39½	120	4,700	200	7,925	125	4,952	200	7,925
6	200	22	55	277	13	3	. . . .	2	. . .	600	36,000	560	32,000	560	32,000	560	32,000
. .	230	5	37	272	12	. .	. . . .	4	48	500	24,000						
. .	154	26	42	222	15	5	. . . .	9	. . .	. . .	20,000	. . .	20,000	. . .	19,000	. . .	20,000
1	15	. .	. . .	. . .	3	1	3,120	2	42								
. .	26	. .	3	29	2	. .	1,353	2	42								
. .	28	2	3	33	2	. .	1,341	2	42								

A **STATEMENT** *of the names, power, capacity and ventilation of the respective*

NAME OF COLLIERY.	NAME OF OPERATOR.	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS.	Slope, shaft, or drift.	Pumps—how many.	Number of engines.	Horse-power.
1	2	3	4	5	6	7
Carondelet,	Frazer & Frey,	Bituminous,	Drift,	. .	. . .	. .
Allequippa,	Whigham & Bailey,	Bituminous,	Drift,	. .	. . .	. . .
Hampton,	Showenlerger & Co.,	Bituminous,	Drift,	. .	1	. . .
Beck's Run, No. 3,	H. B. Hays & Bro.,	Bituminous,	Drift,	2	. . .	. .
Six Mile Forge, No. 2,	H. B. Hays & Bro.,	Bituminous,	Drift,	. .	1	72
Six Mile Forge, No. 1,	H. B. Hays & Bro.,	Bituminous,	Drift,	. .	1	10
Camp Hill,	David Steen & Sons,	Bituminous,	Drift,	. .	. . .	. . .
Iron City,	Philips & Metnzsway,	Bituminous,	Drift,	2	. . .	. . .
Allison's,	Jonathan Allison,	Bituminous,	Drift,	. .	. .	. . .
	Lewis Staib,	Bituminous,	Drift,	1	1	. . .
	Lewis Staib,	Bituminous,	Drift,	. .	. . .	. . .
	Lewis Staib,	Bituminous,	Drift,	. .	. . .	. . .
North Webster,	John Gilmore,	Bituminous,	Drift,	1	. . .	. . .
Bower Hill,	A. Y. Shoults,	Bituminous,	Drift,	. .	. . .	. . .
Oak Ridge,	Oak Ridge Coal Co., (limited,)	Bituminous,	Drift,	. .	. . .	. . .
Venture,	Gray & Bell,	Bituminous,	Drift,	. .	1	50
Midway Coal Company,	Jonah Taylor,	Bituminous,	Drift,	3	1	25
Youghiogheny Coal Co.	Youghiogheny Coal Company,	Bituminous,	Drift,		. . .	. . .

collieries in the First Bituminous Mine District of Pennsylvania—Continued.

Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	VENTILATION.									
										1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
								Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10
. .	71	. .	10	81	4	1	5,260										
. .	134	30	2	166	7	2	8,837										
. .	54	6	12	72	3	. .	2,120										
2	139	. .	33	172	13	1	3,528	10	52								
. .	110	. .	26	136	6	. .	5,600	3	63								
. .	149	. .	39	188	6	1	8,524	8	72								
. .	100	20	16	136	7	1	6,200	4	48	85	4,080						
2	54	4	10	68	3	3	3,600										
. .	25	5	10	40	2	1	1,560	3	56	115	6,440	90	5,040	110	6,160	115	6,440
1	88	10	12	110	10	. .	1,888	2	45¼	. . .	. . . .	. . .	. . . .	. . .	. . . .	200	9,450
. .	41	9	5	55	4	. .	3,280	2	54	175	9,450	. . .	. . . .	. . .	. . . .	175	9,450
. .	34	2	3	39	2	. .	2,470	2	54	. . .	. . . .	. . .	. . . .	. . .	. . . .	340	18,360
. .	69	. .	3	72	3	. .	4,614	3	49								
. .	20	2	5	27	2	1	1,000	3	60								
. .	60	. .	10	70	5	. .	4,000										
1	75	. .	15	90	6	. .	4,758	2	40.6	. . .	. . . .	. . .	. . . .	87 171 258	3,522 3,420 6,941		
2	45	5	13	63	5	2	2,000	2	40	80 70	3,200 2,800						
. .	. . .	. .	. . .	. . .	. .	. .	. . . .	3	64	9,000							

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.											
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
	Average velocity of air current per month at inlet.	Average velocity of air current per minute per month.	Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Velocity of air current per minute at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Average velocity per minute for the month.	Size of outlet—feet.
	11	12	13	14	15	16	17	18	19	20	21	22
M. C. and Coke Co.,	...	...	250	14,000	...	...	...	...	...	...	...	102
C. and C. Company,	...	...	...	...	...	...	...	...	...	...	...	130
Amity,	...	...	...	...	...	...	...	...	...	...	...	56
K. S. C. and N. Co.,	...	...	...	...	...	...	...	...	...	...	...	...
Enterprise.												
...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly,	...	...	...	...	...	...	...	...	...	...	...	54
Shafton,	281	...	80 75 65 50	3,600 3,937 2,925 1,800	60 70 60 50	21,700 3,675 2,700 1,800	80 70 70 55	3,600 3,675 3,150 1,180	80 75 70 55	3,600 3,637 3,150 1,980	66½	98
Larimer Station,	...	...	...	18,000	...	...	...	...	...	...	...	...
Foster,	...	...	...	...	...	27,000	...	25,000				
Springhill,	...	...	...	8,000 7,000	...	4,000 7,000	...	3,200 7,000				
Southside,	...	...	...	...	...	6,000 9,000 26,000	...	...	...	...	...	...
Armstrong's,	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
Streets Run,	...	...	...	...	...	...	...	...	...	...	...	...
Enterprise,	...	333	177	4,425	136	3,400	74	1,850	167	4,175	139	20
Green Springs,	...	...	...	...	...	...	...	...	...	...	...	...
Allison Mines.												
Bellevine,	...	...	...	...	...	...	...	...	...	...	...	30
Plum Creek Mine,	...	...	...	...	...	...	...	...	...	...	...	56
Sandy Creek,	...	...	...	...	...	...	...	...	98	3,969	...	42
New York and Cleveland,	...	...	...	...	...	...	...	...	...	...	...	49
No. 4,	...	...	...	...	...	...	...	...	...	...	...	49
Sandy Run,	5,280	240	260	4,160	260	4,160	260	4,160	265	4,240	4,200	16
Nixon Mines,	...	...	...	...	...	...	...	...	...	...	...	...
Pine Run,	...	...	...	...	...	...	...	...	...	...	...	...
Enterprise,	10,317½	264. .741	136	5,354	141	5,399	146	5,694	150	5,850	5,574¼	39
Wenona Mines.												
Old Eagle,	...	...	...	...	...	...	...	...	...	...	...	42
P. W. Mine,	...	...	150	6,000	...	...	...	...	...	...	...	48
Mount Equity,	...	...	...	...	...	...	...	...	...	...	...	25
Fort Pitt Coal Company,	20	...	...	...	...	...	...	...	...	...	...	24
Slope No. 1,	...	...	...	...	...	...	125	650	...	...	...	12
Drift No. 1,	...	...	180	7,040	...	...	...	...	...	...	...	52½
Drift No. 1,	...	...	160	4,800	...	...	...	...	...	...	...	48½
Drift No. 2,	...	...	...	...	...	...	...	...	...	...	...	...
Drift No. 3,	...	...	...	...	...	...	...	...	...	...	...	68
Spring Grove,	...	...	75	3,600	...	...	...	...	...	...	...	48½
Jackson Mines,	...	...	150	7,760	...	...	...	...	...	...	...	48
Tyrone mines,	...	...	...	...	...	...	...	...	...	...	...	...
Waverly Coal and C. Co.,	...	...	365	10,000	...	...	...	...	...	...	...	45
Jacob's Creek Mines,	...	...	320	8,160	...	...	...	...	...	...	...	25
Ocean Mines,	...	...	100	3,500	...	...	...	...	...	...	...	32
Beck's Run Mine,	...	...	...	...	...	...	...	...	...	...	...	42
Keeling's Mines,	...	...	...	...	...	...	...	...	...	...	...	45
Oakhill Mines,	...	...	...	...	...	...	...	...	...	...	...	46
White Ball,	...	...	170	6,970	...	...	...	...	...	...	...	36
Penney,	...	...	...	...	...	...	...	...	...	...	...	16
Cornell & Herling,	...	...	120	4,320	...	...	...	...	...	...	...	45
...	...	...	...	...	...	...	...	...	...	...	...	16
Osceola Mine,	...	...	55	2,200	...	...	...	...	...	...	...	45
Alps Coal Company,	...	...	...	...	...	...	...	...	55	2,035	...	40
Chiff Mines,	...	...	...	...	...	...	...	...	80	1,840	...	38
Black Diamond,	...	...	...	...	...	...	...	...	...	...	...	45
Shaft No. 1,	...	...	250	12,000	420	17,900	450	20,500	420	18,000	...	39 48⅔
Shaft No. 2,	...	...	700 250	25,000 12,000	680	32,000	680	32,000	720	32,000	...	...

Collieries in the First Bituminous Mine District of Pennsylvania—Continued.

Ventilation.									Mine—how ventilated.			Remarks.
1st week.		2d week.		3d week.		4th week.						
Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Average number of feet passing out per month.	Number of headings.	Size of fan.	Size of furnace.	
23	24	25	26	27	28	29	30	31	32	33	34	
150	15,000	...	...	...	...	...	...	...	...	12 ft.		
...	...	...	...	...	...	...	...	...	...	6		
...	...	...	...	...	...	...	...	...	...	3		
390	25,000	...	...	...	...	...	...	...	10	...	9x24 ft.	
135	13,230	130	12,740	150	14,700	150	14,700	13,842½				
...	31,000	...	37,000	...	35,000							
...	32,670	...	37,000	...	33,000							
...	...	...	...	...	...	...	...	...	4	...	6x12 ft.	
...	...	...	...	...	...	...	...	...	7			
...	...	...	...	...	...	...	...	...	3	...	4x4 ft.	
136	2,720	105	2,100	50	1,000	167	3,340	2,290	9			
...	...	...	...	...	...	...	...	...	3			
...	...	...	...	...	...	...	...	...	7			
...	...	...	...	...	...	98	4,116	...	15			
...	...	...	...	...	...	...	...	...	9		5x10 ft.	
...	...	...	...	...	...	...	...	...	10			
500	8,000	500	8,000	500	8,000	515	8,256	8,126	4		4x4 ft.	
...	...	...	...	...	...	...	...	...	2			
...	...	...	...	...	...	...	...	...	8		6x20 ft.	
301½	11,758	340	13,260	338	13,182	343	13,377	12,894¼	2	...	5x20 ft.	
490	20,580	...	...	...	...	...	...	...	10	...	7x24 ft.	
175	8,400	...	...	...	...	...	...	...	4	...	6x10 ft.	
...	...	...	...	...	...	...	...	...	1			
160	2,400	110	2,640	110	2,640	115	2,760	...	3			
770	9,240	...	...	...	...	...	...	...	4			
220	11,550	...	...	...	...	...	...	...	5			
230	11,155											
...	...	...	...	...	...	...	...	...	5			
205	13,940	...	...	...	...	...	...	...	6			
170	8,245	...	...	...	...	...	...	...	4			
160	7,680	...	...	...	...	...	...	...	6			
...	...	...	...	...	...	...	...	...	7			
280	12,600	...	...	...	...	...	...	...	10			
...	...	...	...	...	...	...	...	...	3			
170	5,440	...	...	...	...	...	...	...	9	...	5x12 ft.	
225	9,450	...	...	...	...	...	...	...	15			
...	...	...	...	...	...	...	...	...	14	...	3x6 ft.	
...	...	...	...	...	...	...	...	...	7			
250	9,000	...	...	...	...	...	...	...	12	...	...	Ventilated by steam.
...	...	...	...	...	...	...	...	...	6			
120	5,400	...	...	...	...	...	...	...	13			
...	...	...	...	120	1,920	...	...	...	7			
60	2,700	...	...	...	...	...	...	...	6			
160	...	...	...	...	...	160	6,400	...	5			
280	10,640	...	...	...	...	...	...	...	13	...	7x12 ft.	
200	9,000	...	...	...	...	...	...	...	15	...	8x34 ft.	
200	12,000	450	17,500	440	21,500	450	17,500	...	...	12 ft. diameter.		
900	33,000	800	32,000	800	32,000	800	32,000	...	20	12 ft. diameter.		

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.											
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
	Average velocity of air current per month at inlet.	Average velocity of air current per minute per month.	Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Velocity of air current per minute at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Average velocity per minute for the month.	Size of outlet—feet.
	11	12	13	14	15	16	17	18	19	20	21	22
No. 4,	...	...	...	...	...	...	...	...	...	...	...	...
Coal Run,	...	...	500	20,000	500	20,000	480	19,000	500	20,000	...	...
Buckeye,	...	...	...	...	...	...	...	...	...	...	...	36
Pittsburgh and Noblestown Plank Road Pit,	...	...	...	...	...	...	...	...	...	...	...	42
Pittsburgh and Noblestown Plank Road Pit,	...	...	...	...	...	...	...	...	...	...	...	...
Carondelet.												
Allequippa.												
Hampton.												
Reck's Run, No. 3,	...	...	...	...	...	...	...	...	...	...	...	...
Six Mile Forge, No. 2,	...	...	...	...	...	...	...	...	...	...	...	...
Six Mile Forge, No. 1,	...	...	...	...	...	...	...	...	...	...	...	...
Camphill,	...	...	...	...	...	...	...	...	350	4,150	...	30
Iron City,	...	...	...	...	...	...	...	...	...	...	...	...
Allison's,	6,020	...	15	600	20	800	12	840	10	400	570	
...	...	...	...	...	...	...	...	...	256	11,648	...	72
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	200	10,800	...	...
North Webster,	...	...	...	...	...	...	...	...	...	...	...	49
Boner Hill.												
Oak Ridge.												
Venture,	...	...	...	...	...	171	3,420	...	...	...	...	28
Midway Coal Company,	...	80 70		...	...	...	...	...	...	...	...	...
Youghiogheny Coal Co.,	...	...	...	...	...	...	...	...	...	...	...	25

Collieries in the First Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.									MINE—HOW VENTILATED.			REMARKS.
1ST WEEK.		2D WEEK		3D WEEK.		4TH WEEK.						
Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Average number of feet passing out per month.	Number of headings.	Size of fan.	Size of furnace.	
23	24	25	26	27	28	29	30	31	32	33	34	
...	....	...	....	...	....	...	....	....	...	.....	56 ft.	
450	20,000	450	20,000	432	19,000	450	20,000	....	30		48 ft.	
...	....	...	....	...	....	...	....	....	2			
...	....	...	....	...	....	...	....	....	1		4x5 ft.	
...	....	...	....	...	....	...	....	....	1		6 ft. long	
...	....	...	....	...	....	...	....	....	7			
...	....	...	....	...	....	...	....	....	3			
...	....	...	....	...	....	...	....	....	6		7x12 ft.	
140	4,200	..	....	...	....	...	....	....	8			
...	....	...	....	...	....	...	....	...	4		4x5 ft.	
...	....	...	....	...	....	193	13,896	11,664	2		5x6 ft.	
...	....	...	....	..	....	950	19,000	140	2			
...	....	...	....	...	....	200	10,800	.	2			
...	....	...	....	...	....	...	....	....	1			
...	....	...	....	122.5	3,307 7,115	..	....	....	4	.....	6x5 ft.	
...	....	...	....	...	....	...	....	....	2			
...	....	...	....	...	....	...	....	....	7	.....	5x5 ft.	

DESCRIPTION OF MINES IN FIRST DISTRICT.

Mansfield Coal and Coke Company, Operators.

This colliery is located at Mansfield, in Allegheny county. The coal lies one hundred and fifty feet above the railroad track, and is run down an incline plane. It has been in operation since 1864, and before the panic, did a very good business, and was considered the best mine on the road, (P. C. & St. L. railway,) but for the last two or three years has not run very steady. The slack from this mine is utilized by washing, and made into coke for the western market. It has a number of openings, and is ventilated by natural means.

Fort Pitt Coal Company, Operators.

This mine is at Fort Pitt station, on the P. C. & St. L. railway, Allegheny county. The main heading is opened sixteen hundred yards, and has four cross-headings, two of which run to daylight. The coal lies above the railroad track, and is run down an incline plane, and goes to the Pittsburgh market. There are a number of coke ovens here not in use. The ventilation is not very good, and is by natural means.

Camp Hill Mine---David Steen & Sons, Operators.

This mine is located one mile west of Mansfield, Allegheny county, on the line of the P. C. & St. L. railway. It consists of a drift opened on the face of the coal fifteen hundred yards, and has six cross-headings. The coal lies above the railroad, and is lowered by means of an incline plane to the cars, by which it is shipped to the Pittsburgh market. These works run very steady, the firm doing a large retail trade. The mine is ventilated by natural means, but the owners contemplate erecting a furnace to improve it.

Cherry Mine---Morris McCue, Operator.

This mine is at Hay's crossing, on the P. C. & St. L. railway, Allegheny county. The coal lies above the level of the railroad, and is reached by an incline plane three hundred yards long. It consists of a drift opened eight hundred yards, with three cross-headings. The coal, which is four (4) feet high, is of good quality. The owner is building a furnace for the proper ventilation of the mine.

McCabe Mine---McCabe, Clark & Co., Operators.

This mine is on the Chartiers Valley railroad, one mile from Bridgeville, Allegheny county, and consists of a slope and two shafts. The slope is sunk one hundred and twenty-five feet on a twenty-eight deg. dip, the coal being hoisted by steam power. At the time of my visit, the ventilation was very poor, since which a new shaft has been sunk, and a furnace erected. This mine generates carburetted hydrogen and carbonic acid gas. The coal from this mine is shipped to the Pittsburgh market.

Chartiers Valley Coal Company---Clemans & Boden, Operators.

This colliery is situated on the Chartiers Valley railroad, one mile south of Mansfield, Allegheny county, and consists of a drift opening. The main heading is driven two hundred and fifty yards. This is a new enterprise, having only been in operation about nine (9) months. Ventilation is produced by the action of a small furnace, at the bottom of a shaft fifteen (15) feet deep. The ventilation and drainage is fair.

Summer Hill Mine---A. J Negley & Co., Operators.

This mine is on the Chartiers Valley railroad, two miles south of Mansfield, Allegheny county, and consists of a drift and air course opened to daylight. This is a dip mine, and the water is very troublesome. There is great need of ventilation of some kind. The firm contemplate building a furnace for that purpose. The capacity of the mine is one hundred and twenty tons per day, which is shipped to the Pittsburgh market.

Presbyterian Union Mines---Huntsman, Miller & Co., Operators.

This colliery is located at Fort Pitt Station, on the P. C. & St. L. railroad, and consists of a drift and shaft. The main heading is opened one thousand and sixty yards. Eight cross-headings are opened, two of which are worked out. This coal is of excellent quality, being free from all impurities, and commands a high price in the market. The seam lies one hundred and fifty feet above the railroad, and is lowered by means of an incline plane and shipped to the Allegheny market. Ventilation is produced by the action of a furnace. The drainage and ventilation is fair.

Sandy Creek, Nos. 1 and 2---New York and Cleveland Gas Coal Company, Operators.

These mines are located on the Allegheny Valley railroad, in Penn township, Allegheny county. They consist of two (2) drifts. The coal here lies high, (near the top of the hills,) and is reached by railway and three incline planes. The coal, which is of good quality, is hauled from the foot of the first incline plane to the main line by a locomotive. Operations are being carried on in the third hill, (the first two having been worked out.) The capacity of the two mines is twenty thousand bushels per day.

Plum Creek Mines, Nos. 1 and 2---New York and Cleveland Gas Coal Company, Operators.

Only one of these mines is in operation. They are situated seven miles from the main line of the A. V. railroad, in Penn township, Allegheny county. The coal is reached by railway and an incline plane, and is hauled by a locomotive to the main line. Passenger coaches are run in connection with the coal trains, for the accommodation of the public. The first and second hills are being mined at this colliery.

Union Coal Mines---Armstrong, Dickson & Co., Operators.

This mine is located at Armstrong Station, on the A. V. railroad, Allegheny county, and consists of a drift The main heading is opened one thousand nine hundred yards in the third hill, the first two hills having been worked out. A locomotive is used to haul the coal through the first two tunnels to the head of an incline plane, where it is run down and hauled one mile by mules to incline plane No. 2, which conveys it to the railroad. These works have been very expensive, and a great amount of coal has been mined during the last fourteen years.

Sable Mines---W. J. Doak & Co., Operators.

This mine is located in Penn township, Allegheny county, on the line of the A. V. railroad. It consists of a drift, and has been in operation about fourteen years. It is nearly worked out, and the pillars are being taken out in order to close up the mine. The coal is reached by an incline plane, which conveys it to the railroad below.

Midway Block Coal Company---Taylor, Ulp & Co., Operators.

This mine is situated at Midway, on the line of the P. C. & St. L. railway, and consists of a drift, running south, and three cross-headings. The coal here lies below the railroad. A shaft has been sunk for drainage and ventilation, which is produced by steam exhaust from the pump used for draining. The product of this mine is shipped to the Western market.

Robbins' Block Coal Mine---T. B. Robbins & Co., Operators.

This colliery is located at Primrose, on the P. C. & St. L. railroad, in Washington county. It consists of two drifts and a shaft. The coal lies below the level of the railroad, and is hauled up grade by mules. The valuable part of the seam is five feet high, and of good quality. Part of the product of this mine goes to the Western market, and the balance is used by the locomotives on the P. C. & St. L. railroad. The ventilation is produced by fire baskets at the bottom of the shaft.

Oak Ridge Mine---Oak Ridge Coal Company, (Limited,) Operators.

This mine is located at Oakdale, on the line of the P. C. & St. L. railroad, Allegheny county. It consists of a drift opened through the hill, and has four cross-headings. The coal is reached by means of an incline plane, three hundred feet long, which conducts it to the railroad below. The drainage of this mine is very good, but the ventilation is not satisfactory. A shaft and furnace for ventilation are contemplated by the owners. This coal goes to supply the Pitsburgh market.

National Mines---Pittsburgh National Coal Company, Operators.

This mine is at Noblestown, on the P. C. & St. L. railroad, in Allegheny county, and consists of a drift opened seven hundred yards in the third hill. The first and second hills are worked out. The coal is reached by an incline plane. Ventilation is produced from the steam exhaust of the pump used for draining.

Thomas Fox Mine—Thomas Fox, Operator.

This mine is located on the Pittsburgh and Noblestown plank road, two miles west of Pittsburgh, Allegheny county, and consists of two drift openings. The main heading is opened one thousand yards, and a cross-heading four hundred yards. Since my first visit here, a small furnace has been built at the mouth of an old drift, which helps the ventilation. This mine generates carbonic acid gas. The product of this mine is hauled by teams to the Pittsburgh market.

Chess Mine—Gray & Bell, Operators.

This mine is in the Thirty-sixth ward, Pittsburgh, Allegheny county. The main heading is opened eleven hundred yards through the first hill, and eight hundred yards into the second, and has five double cross-headings. The coal is drawn out by steel rope and steam power, and run down an incline plane, then through a tunnel under Coal Hill, to the Southside mills, where it is consumed. Ventilation is produced by the action of a furnace, at the bottom of a shallow shaft. The ventilation and drainage are both fair.

Jacob Weinman, Operator.

This mine is located near Wilkinsburg, Allegheny county, the product of which (about one thousand bushels per day) is consumed in the neighborhood. It is nearly worked out, some three or four acres only remaining.

Little Alps—Crowalthers, Musgrave & Co., Operators.

This colliery is located on the east bank of the Monongahela river, in Jefferson township, Fayette county, and consists of a drift opened through the hill, which has four headings connected with it. A shaft has been sunk for ventilation. At this point, the Pittsburgh vein of coal is below high water mark, and the water from the river sometimes floods the mine. The damages sustained from this cause are slight, the water running out as the river subsides. The product of this mine is shipped in boats to the Pittsburgh, western, and southern markets. They have the best system in operation here of loading coal into boats that I have seen.

Enterprise Mine—Hartley & Marshall, Operators.

This colliery is situated on Little Saw Mill run, three miles west of Pittsburgh, Allegheny county. It consists of a drift, and two shafts for ventilation. The main heading is opened eighteen hundred yards on the dip. The coal is drawn out by rope and steam power. A steam pump is used to drain the mine, which is a very old one, having been in operation over twenty-five years. The product is shipped south and west by the Ohio river.

Hampton Mine—Shoenberger, Armstrong & Dickson, Operators.

This colliery is on the Pennsylvania railroad, at Wilkinsburg, Allegheny county, and consists of a drift. The main, or west heading is opened sixteen hundred yards, and has a number of cross-headings. It has a number of openings, but at the time of my visit, they were too small to be of much service for ventilation. The coal is reached by railroad and incline plane. Last spring, a new check-house was built to replace the one burned. Mr. John Blythe, the superintendent, then adopted a new plan of handling coal, (which is shown in the plan published in this report.) He deserves great credit for his invention, as the product of the mine can be handled much safer and better, and a saving of labor and time is effected.

Cedar Hill Mine—Morgan & Dickson, Operators.

This mine is located on the east bank of the Monongahela river, fourth pool, in Jefferson township, Fayette county, and consists of a drift, which is below high water mark. This mine generates considerable carbonic acid gas. There were formerly two openings, but there is only one now; the other one has been closed for sometime. Another opening is being driven. This firm own a tow-boat, and a number of coal boats. They are not operating very strong at the present time.

Garrow Mine—Joseph Garrow, Operator.

This mine is located on the east bank of the Monongahela river, just above the Cedar Hill mine, and is opened to the dip, having two openings. There are only fifteen or twenty acres of coal yet to be taken out here. This coal is loaded chiefly for other firms.

Coal Ridge Mine—Gray & Bell, Operators.

This mine is located on Little Saw Mill run, three miles west of Pittsburgh, Allegheny county. The product is shipped over the Little Saw Mill Run railroad, and the Ohio river, to the western and southern markets. This mine has been in operation over twenty years, the present firm having operated it over eighteen years. Ventilation, which is satisfactory, is produced by the action of a furnace at the bottom of the shaft. The coal is of good quality, and finds a ready market.

Venture Mine—Gray & Bell, Operators.

This mine is on the Little Saw Mill Run railroad, about three miles west of Pittsburgh, Allegheny county, and consists of a drift, opened on the dip. The coal is drawn out, some twelve hundred yards, by steel rope and steam power, and is shipped over the Little Saw Mill railroad to the Ohio river, thence to the West and South. The present operators have spent large sums of money in draining. The ventilation is produced by the action of a furnace.

Castle Shannon Coal Company's Mines.

These mines are located three miles west of Pittsburgh, Allegheny county, and consists of three drifts, all of which are above water level. There is also another mine at Fairhaven, two miles further west. The products of both mines are shipped over the Pittsburgh and Castle Shannon Narrow Gauge railroad, to the Southside, Pittsburgh, part going to the rolling mills, and the balance to the large retail platform at the foot of the incline plane.

Coal Bluff Mine—Patterson & Co., Operators.

This colliery is on the west bank of the Monongahela river, in Washington county, and consists of a drift, and shaft for ventilation. This mine generates carburetted hydrogen gas, once having been the scene of a terrible explosion. It is worked on the double-heading system, and ventilated by furnace. It has facilities for railroad and river loading.

Keeling's Mines, Nos. 1 and 2, Joseph Keeling & Co., Operators.

These mines are located about three miles from Pittsburgh, Allegheny county, and consist of a number of drifts opened on the face of the coal. The works have been pushed back into the fifth hill. A locomotive is used for hauling coal to the head of an incline plane, where it is run down to the platform at Twelfth street. The balance of the coal is drawn by wire rope and steam power, through a tunnel two and a half miles, to an incline plane at Twenty-first street, and run down said incline plane, and over the company's road, by locomotive, to the Monongahela river, and shipped to the South and West. This company have the telephone in use at the head of Twenty-first street, running back over the hill a distance of two and a half miles to the mouth of the mine, and it is giving great satisfaction. Another engine, and endless rope, has been erected; also, a double track built twelve hundred yards into the fifth hill, for the purpose of hauling coal from this part of the mine. They are making preparations for opening a new mine, containing five hundred acres of coal.

Jones & Laughlin's Mine.

This mine is situated two miles from Brownstown, (Southside, Pittsburgh,) Allegheny county, and consists of a drift, and a shaft for ventilation. The coal (which lies two hundred feet above water level) has been taken out of the first hills, and a locomotive is used to draw it from the pit mouth. The entire production of this mine is used at the company's large iron-works, at Brownstown.

Cliff Mines—Scully & Co., Operators.

This colliery is on the west bank of the Monongahela river, five miles below Monongahela City, in Washington county, and consists of a drift, and a shaft for ventilation. Like Coal Bluff mine, it generates considerable carburetted hydrogen gas, and is ventilated by furnace, and worked on the system of double headings. It has facilities for both railroad and river loading.

Beck's Run Mine—H. B. Hays & Bros., Operators.

This mine is situated on the west bank of the Monongahela river, four miles south-west of Pittsburgh, Allegheny county, and has two drifts. The coal is two hundred feet above water level, and is reached by an incline plane. Many improvements have been made. About three miles of headings, including water headings, have been opened, and the mine thoroughly drained; the track has been relayed, and a new tipple erected at the Monongahela river.

Street's Run Mine—I. D. Risher, Operator.

This colliery is located six miles south-west of Pittsburgh, in Allegheny county, and consists of a drift. It is reached by railroad, and an incline plane, the coal being run down by wire rope and steam power. A small locomotive hauls the coal from the foot of the incline to the Monongahela river, where it is loaded into boats and barges, and shipped South and West.

V. Harding's Shaft—V. Harding, Operator.

This colliery is located three miles east of Washington, in Washington county. It consists of a hoisting shaft, and a shaft for ventilation. The seam of coal is three feet nine inches, and is hoisted out of the mine by machinery. The owners are much troubled with water. The product of this mine is hauled over the country roads to the town of Washington, where it finds a market.

Allison's Mine—J. Allison, Operator.

This mine is situated on the Chartiers Valley Railroad, five miles north of Washington, in Washington county, and consists of a drift. The main heading, running northwest, is opened five hundred yards in five feet of coal, which lies very level. The production of this mine is shipped over the P. C. & St. L. Railway, to the western market.

Duquesne Mine—Duquesne Coal Company, Operators.

This colliery is situated one mile from Wilkinsburg, on the Pennsylvania Railroad, in Allegheny county, and consists of a drift. The coal is being mined in the third hill. A locomotive is used to haul the mine cars through the two first hills, when they are run down an incline plane, to the railroad below. This coal is four and a half feet high, and of good quality.

Carlin's Mine—John Carlin & Co., Operators.

This mine is on the Noblestown plank road, two miles west of Pittsburgh, Allegheny county, and has a drift on the face of the coal. The product is drawn out by wire ropes and steam power, and is taken to market by teams, each one hauling from seventy-five to one hundred bushels.

American Mine—J. P. Coursin, Operator.

This colliery is situated on the west bank of the Monongahela river, fourth pool, two miles below Greenfield, Washington county. The coal is from seven to eight feet in thickness, and lies just about the right distance above high water; it is loaded into boats for the West and South. The mine is ventilated by a furnace.

Wood & Huston Mine—Wood & Huston, Operators.

This colliery is just above the American mine, on the same side of the river, in Washington county, and consists of a drift. The coal is being worked in the second hill, (the first having been worked out,) and is hauled by mules to the river tipple, where it is shipped to the West and South. The mine is ventilated by a furnace.

Short's Mine—John Short, Operator.

This mine is located on the west bank of the Monongahela river, fourth pool, one and one half miles below Greenfield, Washington county. It consists of a drift, opened in eight feet of good coal. The product is shipped West and South, by river.

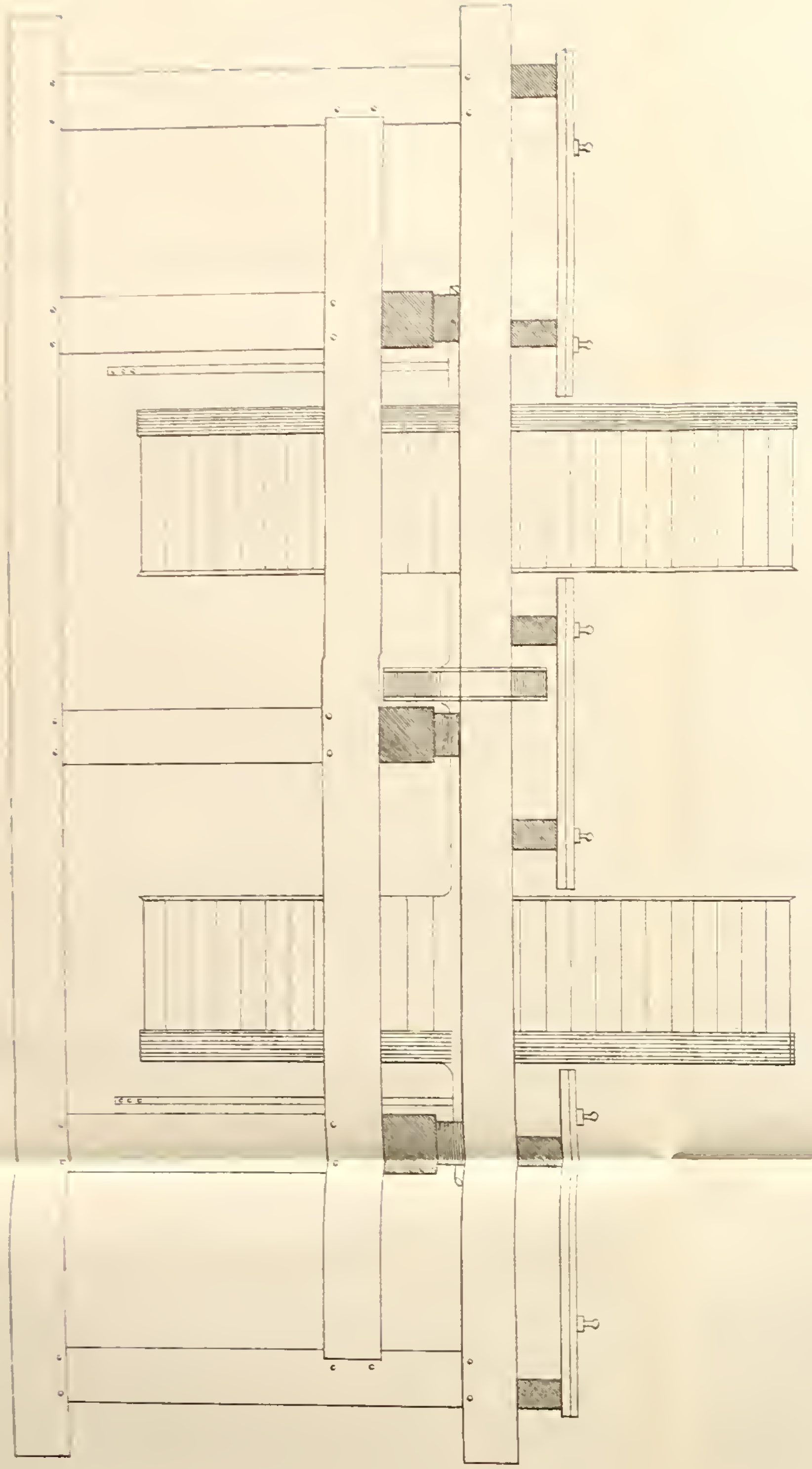
Smith's Mine—Smith & Co., Operators.

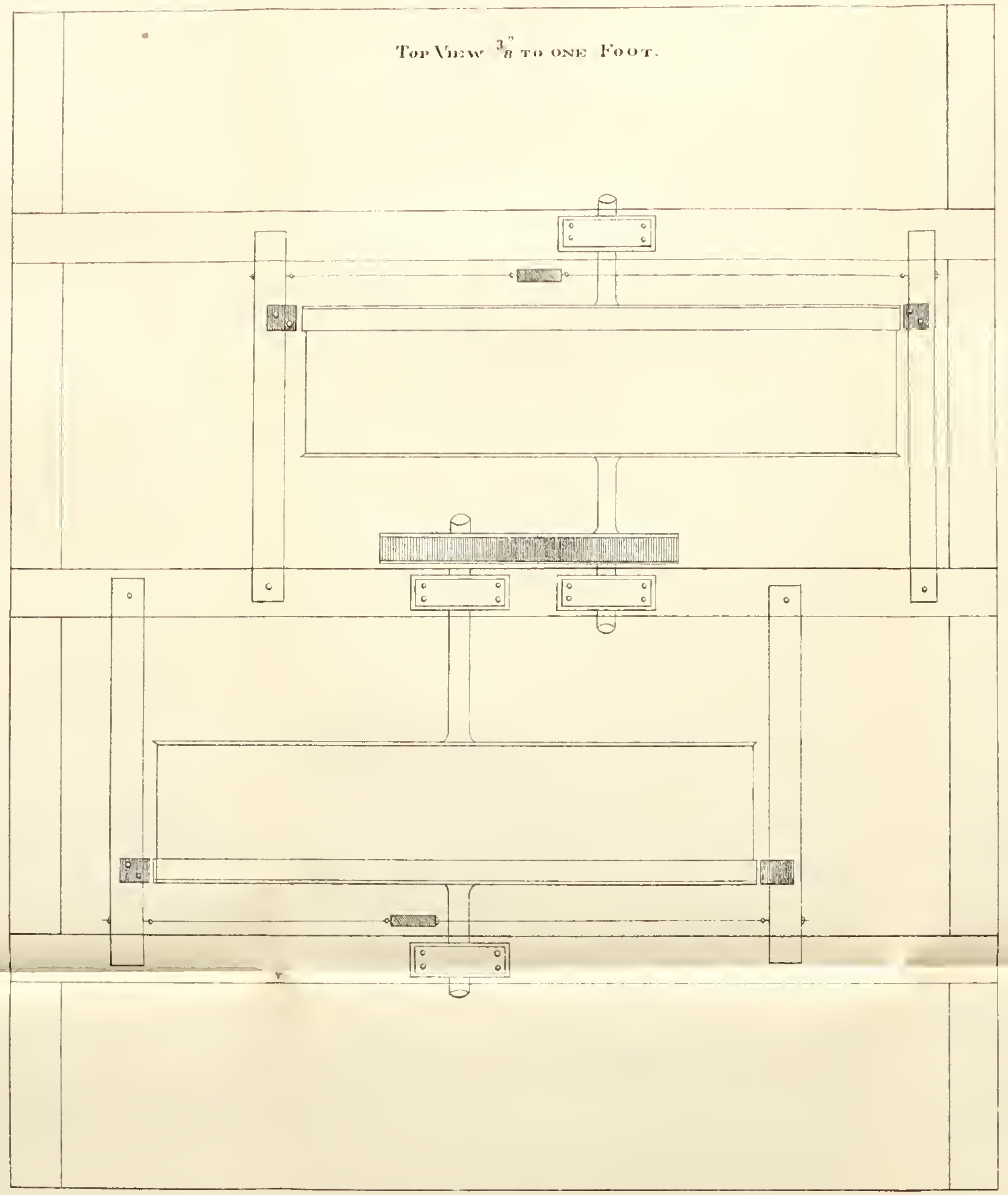
This colliery is located on the same side of the river, in Washington county, and is a drift. The mine is ventilated by a small furnace, and the coal is shipped by river to Pittsburgh.

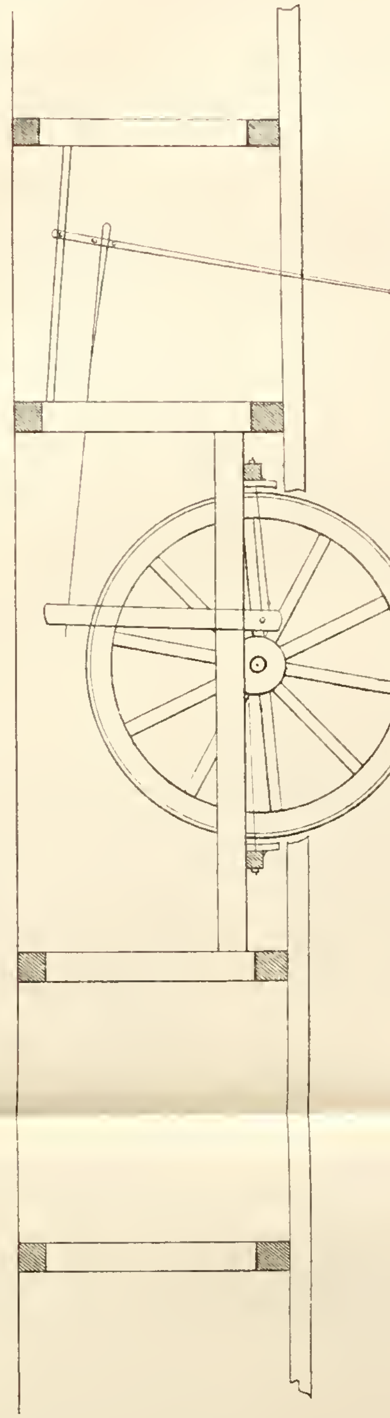
E. C. Furlong, Operator.

This mine is located just above the Smith mine, in Washington county, and is very similar. At the time of my visit, it was not in operation.

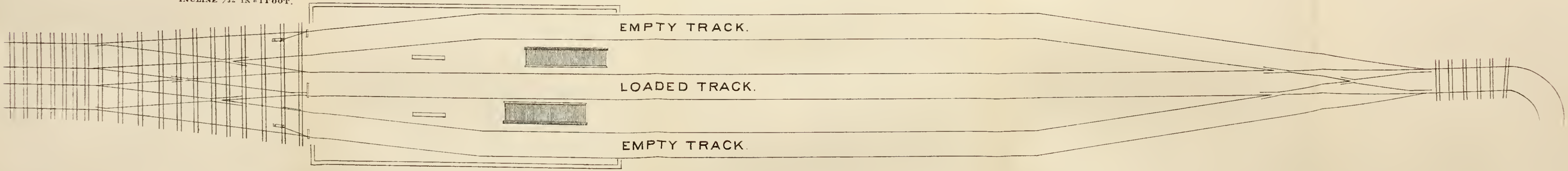
Plan of Check House and Track at Hampton Mines, Allegheny Co.


End View 3/8 in to 1 Foot.


Top View 3/8" to one Foot.


Side View 3/16 in. to 1 Foot.

Incline 3/32 in = 1 Foot.



William Wilcox, Inspector
of Bituminous Mines 1st Dist.

Leadbeater & Co., Operators.

Their colliery is located on the west side of the Monongahela river, one mile below Greenfield, in Washington county, and consists of a drift, and a shaft for ventilation. The coal is hauled out by mules, and shipped, by river, to the West and South.

Reed & Brother, Operators.

This mine is located just above the last one. Being through the hill, it is nearly worked out, only a few pillars remain to be taken out, in order to close the present workings.

T. S. Neel, Operator.

This colliery is located at Greenfield, Washington county. The first hill has been worked out, and the work has been pushed into the second. The coal is hauled by mules to the river tipple, where it is loaded into boats and barges, for the West and South. A boat-yard is connected with these works, and boats are built and repaired here.

Leonard & Co., Operators.

This colliery is situated on the west side of the Monongahela river, in Washington county, one mile above Brownsville, and consists of a shaft and slope. The shaft is used for ventilation and drainage, and the coal is hoisted out of the slope by steam power, and shipped by river to the South and West. This mine being below the water level, it requires constant attention to the pumps to prevent its being flooded with water. This is a new enterprise, having been in operation only a few months.

James Rutherford's Mine—James Rutherford, Operator.

This mine is located on the east bank of the Monongahela river, one mile south of Fayette City, Fayette county. The coal seam, which lies just above high water mark, is eight feet in thickness, and of good quality. It is shipped by river to Pittsburgh, where it finds a ready sale.

Turnbull & Hall, Operators.

Their mine is just above Rutherford's mine, and the product goes to the same market. A syphon is used for draining the mine, and a small furnace for ventilation.

Penn Gas Coal Co., Shaft No. 2.

This colliery is situated on the Sewickley Branch, one mile from Irwin's station, in Westmoreland county, and consists of a shaft and slope. The slope is used for ingress and egress, the shaft being used for hoisting the coal. This mine generates carburetted hydrogen gas in large quantities. It is ventilated by a powerful fan, which is kept constantly in motion, producing from thirty thousand to forty thousand cubic feet of pure air per minute, which is properly distributed through the workings. The engines, boilers, and ropes used for hoisting are all of the most improved makes, and the best materials. The product of this mine is shipped over the Pennsylvania railroad to the east.

Penn Gas Coal Co., Drift No. 4.

This mine is located on the Sewickley Branch, at the junction of the Baltimore and Ohio railroad, and consists of a drift. A powerful furnace has been built and put in operation, which produces ample ventilation. Both of these mines are worked on the double heading system, and the character of the work is good.

Penn Gas Coal Co., Shaft No. 3.

This colliery is situated on the Sewickley Branch, nine miles south of Irwin's station, Westmoreland county. It consists of a drift and shaft one hundred and one feet deep. The shaft is used for hoisting the coal, the drift being used for ingress and egress. Ventilation is produced by steam jets. The company having more mines in operation than their business requires, this one has been stopped for the present.

Penn Gas Coal Co., Shaft No. 1.

This mine is at Irwin's station, Westmoreland county, and consists of a shaft and drift. The machinery in use is the best I have seen in my district, and is a marvel of completeness. The fan in use produced ample ventilation. I measured thirty-three thousand five hundred cubic feet of air at the return outlet, and twenty thousand five hundred feet at the face of the headings. The product of this mine is shipped over the Pennsylvania railroad to the east.

Daniel Bortner, Operator.

This mine is located on the east bank of the Monongahela river, one mile above Fayette City, Fayette county, and consists of a drift. It is drained by a syphon. The product of the mine is shipped by river to the West and South.

Clipper Mine—Samuel Clark, Operator.

This colliery is located on the west bank of the Monongahela river, opposite Fayette City, in Washington county. and consists of a drift. It is worked on the double heading system, and ventilated by furnace. The coal is run down an incline plane to the river, and shipped to the South and West.

Carondelet Mine—Frazer & Frye, Operators.

This colliery is situated one mile above Fayette City, on the east bank of the Monongahela river, fourth pool, in Fayette county, and consists of a drift opened in six feet of coal. The main heading is through the hill. The coal seam lies just above high water line. The product is shipped by river to the West and South.

George Clark, Operator.

This mine is located on the east bank of the Monongahela river, one mile above Bellevernon, in Fayette county, and consists of a drift. A shaft is contemplated for ventilation. The product of the mine is shipped by river to the West and South.

Speer's Mine—Speer & Co., Operators.

This colliery is situated at Bellevernon, on the east bank of the Monongahela river, fourth pool, Westmoreland county, and consists of a drift on the dip. The coal is run down an incline plane to the river, and shipped West and South.

Rostraver Mines—J. W. Clark, Operator.

This mine is located at Lock No. 4, on the east bank of the Monongahela river, in Westmoreland county, and consists of a drift, running through the hill. At this point, the coal seam is very high on the hillside, and is fully twelve inches thinner than at Bellevernon. An incline plane conveys the coal to the river, where it is shipped to the Western market.

Iron City Mine—Phillips & Mittenzway, Operators.

This colliery is located on the east bank of the Monongahela river, three miles above Webster, Westmoreland county, and consists of a drift. It is ventilated by a furnace. The coal is run down an incline plane to the river, and shipped West.

Wm. Hodgson's Mine—Lynch & Robinson, Operators.

This mine is situated one mile south of Webster, on the east bank of the Monongahela river, Westmoreland county, and consists of a drift. A shaft for ventilation is being sunk. The coal is run over an incline plane to the river, and shipped West and South.

Webster Coal Works—W. C. Goeffey, Operator.

This colliery is located on the east bank of the Monongahela river, just above Webster, in Westmoreland county. It consists of a drift, which is nearly worked out, only a few pillars remaining. The coal is run down an incline plane to the river, where it is shipped to the West.

Gilmore's Mine—John Gilmore, Operator.

This mine is situated on the east bank of the Monongahela river, at Webster, Westmoreland county, and is a new enterprise, having been in operation only a few months. The main heading is driven through the hill, and a syphon is used for draining. The coal is run down an incline plane, and shipped to the West.

Six-Mile Ferry Mines—H. B. Hays & Bro., Operators.

These mines are situated at Six-mile Ferry, on the west bank of the Monongahela river, six miles south-west of Pittsburgh, Allegheny county. They consist of two drifts, one of which is nearly new. The coal, which is of good quality, is five feet thick, and is reached by railroad and an incline plane. At the oldest of these mines, a locomotive is used to haul the coal to the head of the incline plane. Another locomotive hauls the coal from both mines to the Monongahela river, where it is loaded into broad-horns and barges, for the South and West. This firm owns large tracts of coal lands, and do a large business in mining and shipping coal.

Tomer Mines—Jacob Tomer, Operator.

This colliery is located on the east bank of the Monongahela river, just below Webster, in Westmoreland county, and consists of a drift. This is a very old mine, and is ventilated by a furnace. The coal is run down a short incline plane to the river, where it is loaded into boats for the South and West.

Staibe Mine—Lewis Staibe, Operator.

This mine is on the east bank of the Monongahela river, two miles west of Webster, in Westmoreland county, and consists of a drift. The coal lies just about the right distance above water level, and is mined without an incline, being run out of the mine to the river, on a good and easy grade, where it is loaded and shipped to the West.

Milesville Mine—Robbins, Linn & Co., Operators.

This colliery is situated on the east side of the Monongahela river, at Milesville, Allegheny county, and consists of a drift. The owners are contemplating sinking a shaft for ventilation. The coal is run out on the level to the river bank, then down a short incline plane to the river, and shipped South and West. This coal is of excellent quality, and commands the highest price in market. The work is well laid out, and the management good.

Greenhalgh & Stockdale, Operators.

This colliery is on the west bank of the Monongahela river, four miles above Monongahela City, Washington county, and consists of a drift. The coal is reached by an incline plane. The product is shipped South and West by the river. The mine was not running at the time of my visit.

Staibe Mines—Lewis Staibe, Operator.

This colliery is on the west bank of the Monongahela river, three miles above Monongahela City, in Washington county, and consists of a drift, which is driven through the hill. The coal is lowered by an incline plane to the river, thence it is shipped to the South and West.

Black Diamond Mine—W. H. Brown's Heirs, Operators.

This mine is located on the west bank of the Monongahela river, two miles above Monongahela City, in Washington county, and consists of a drift. The valuable part of the coal seam is five feet thick, and the coal is run down a short incline plane to the river. The mine is worked on the double heading system, and ventilated by a powerful furnace, which is kept constantly at work producing large volumes of pure air, which is properly distributed around the workings. Carburetted hydrogen gas is generated in large quantities, but under the present management the mine is perfectly safe.

Warne Mines—H. A. Warne, Operator.

This mine is situated on the west bank of the Monongahela river, one mile above Monongahela City, in Washington county, and consists of a drift opened on the dip of the coal. The seam at this point is nearly level with the river tipple. This firm own a steamboat, which is used for towing. The mine was not in operation at the time of my visit.

Cat's Bird Mine—Lewis Staibe, Operator.

This colliery is located just above Monongahela City, on the west bank of the Monongahela river, in Washington county, and consists of a drift. A small shaft has been sunk, a furnace erected for ventilation, and a number of openings have been made. The product of the mine is shipped by river to the West.

Grant Mine—John D. Negley, Operator.

The colliery is located at Mansfield, on the Pittsburgh, Cincinnati and St. Louis railroad, and consits of a drift. The work has progressed in to the third hill; the grade being easy, the coal is hauled by mule power, and run over an incline plane to the railroad, thence to the Pittsburgh market. It has been in operation fourteen years, and a great amount of coal has been mined. A furnace will be erected for ventilation.

Mingo Mine—Thomas Hutchinson, Operator.

This colliery is located just below Monongahela City, on the west bank of the river, in Washington county, and consists of a drift. Ventilation is produced by the action of a furnace; the coal is shipped by river to the West and South. It was not in operation at the time of my visit.

New Eagle Mines—Lindsay & McCutcheon, Operators.

This colliery is located on the west bank of the Monongahela river, one mile below Monongahela City, Washington county, and consists of two (2) drifts, and a shaft for ventilation. The coal seam at this point lies just about high enough for river loading, and no incline plane is needed. The coal is shipped West by river.

Old Eagle Mine—W. H. Brown's Heirs, Operators.

This colliery is situated on the east bank of the Monongahela river, two miles below Monongahela City, Allegheny county. It consists of two drifts, and is worked on the system of double headings. The coal is over five feet thick, of very good quality, and is run out of the mine on a level with the river tipple, thereby dispensing with an incline plane. The mine is ventilated by a powerful furnace, and brick stack, seventy-five feet high, and large volumes of pure air are sent through the workings. The product is shipped by river South and West.

Buffalo Mine—Wm. B. Huston & Flanigan, Operators.

This mine is located on the west bank of the Monongahela river, four miles below Monongahela City, Washington county. It consists of a drift, and has facilities for railroad and river loading, the Pittsburgh, Virginia and Charleston railroad running past the pit mouth. The product is mostly shipped by river to the West and South. Ventilation is produced by the action of a furnace in a small shaft.

Cincinnati Mine—W. B. Huston, Operator.

This colliery is located just below the Buffalo mine, on the same side of the river, in Washington county, and is much the same, but has only facilities for river loading. The coal is run out of the mine on a level with the tipple, and shipped by river to the West. Ventilation is produced by the action of a small furnace, at the bottom of a shaft located on the river bank.

Shire Oaks Mine—Blackburn & Mort, Operators.

This colliery is situated on the west bank of the Monongahela river, just above Lock No. 3, in Washington county, and consists of a drift, the pit mouth lying nearly half a mile from the river. The coal is run down an incline plane by rope and steam power, thirty-five or forty wagons being run down each trip. Ventilation is produced by the action of a small furnace.

Wenone Mine.

This colliery is located on the east bank of the Monongahela river, just above Lock No. 3, in Allegheny county, and consists of a drift which is nearly worked out. The coal is run down an incline plane, and shipped by river to the West.

Walton's Lower Road—Walton & Co., Operators.

This colliery is located at West Elizabeth, on the west bank of the Monongahela river, Allegheny county, and consists of a drift. Work has progressed into the second hill. A locomotive hauls the coal through the first hill nearly a half mile, then it is run down an incline plane to the river, where it is shipped West and South.

Enterprise Mine—O'Neil & Co., Operators.

This colliery is located at West Elizabeth, on the west bank of the Monongahela river, in Allegheny county, and consists of a drift. Work is progressing in the second hill. The coal is hauled by mules to the head of an incline plane, then run down the same to the river ; from here it is shipped West. The P. V. & C. railroad passes near the foot of the inclineplane.

Jones' Mine—G. W. Jones & Bro., Operators.

This colliery is situated on the west bank of the Monongahela river, one mile above West Elizabeth, Allegheny county, and consists of a drift. The mine lies above the level of the river, and is reached by an incline plane and railway track. The product is shipped by river to the West and South.

Walton's Upper Road—Walton & Co., Operators.

The colliery is situated on the west side of the Monongahela river, two miles above West Elizabeth, in Allegheny county, and consists of a drift. The coal is hauled out of the mine by mules to the head of an incline plane, and there run down. From here it is hauled by a locomotive to the river, and shipped to the West and South. The P. V. & C. railroad track crosses the company's track near the river.

Laurel Hill Mine—W. P. Rend & Co., Operators.

This colliery is located on the east side of the P. C. & St. L. Railway, Allegheny county, and consists of a drift, and shaft for ventilation. The coal is hauled out on a level with the tipple by mules, and shipped over the railroad to the Chicago market. Ventilation is produced by the action of a furnace. These mines have been in operation seven years, and about two hundred acres of coal yet remain to be taken out.

Horner & Roberts' Mine—Horner & Roberts, Operators.

This colliery is situated at Elizabeth, on the east side of the Monongahela river, Allegheny county, and consists of a drift and shaft. The coal is hauled out of the mines by mules, and run over the company's railway, two miles to the river, where it is loaded into boats and barges for the Western market. No incline or trestle is used, the coal seam or outcrop being level with the head of the road. The drainage is effected by a steam pump, and the ventilation (which is thorough) is produced by the action of a powerful furnace, and brick stack, one hundred feet high, which was built last summer. The mine is in good order, and from six hundred to seven hundred acres of coal yet remain to be mined.

Wood, Srader & Co., Operators.

This colliery is situated on the east side of the Monongahela river, one mile below Elizabeth, second pool, in Allegheny county, and consists of a drift. The coal is drawn out of the mine by wire rope and steam power, to the head of an incline plane, and run down said plane to the company's railroad, thence by a locomotive to the river, where it is shipped to the West and South.

Gumbert & Huey Mine—Gumbert & Huey, Operators.

This colliery is located on the east side of the Monongahela river, two miles west of Elizabeth, Allegheny county, and consists of a drift. At this point, the coal seam lies three hundred and seventy-five feet above the level of the river, and is reached by means of a double track incline plane. The work has progressed through the first hill, and is being carried on in the second; the coal is hauled by mules to the head of the incline plane, then run down to the river, and is shipped to the West.

Robbins & Jenkins Mine—Robbins & Jenkins, Operators.

This colliery is located on the east bank of the Monongahela river, second pool, five miles above McKeesport, Allegheny county, and consists of a drift. The coal is hauled by mules, and run over an incline plane to the river, where it is shipped to market.

Foster, Clark & Wood, Operators.

The colliery is situated on the west bank of the Monongahela river, five miles above McKeesport, Allegheny county, and consists of a drift. The coal is reached by railroad and incline plane, the product being shipped to the West and South. Ventilation is produced by the action of a furnace.

Pine Run Mine—Lynn, Wood & Co., Operators.

This colliery is situated on the west side of the Monongahela river, at Pine run, Allegheny county, and consists of two drifts. A narrow gauge railway has been built from the river, over which a locomotive hauls the pit wagons from the foot of the two short incline planes. In the oldest of these mines, as the work progressed, a "fault" was encountered, and the coal bed was "pitched" in the form of an incline plane, down which the coal is run. These mines are worked on the system of double-headings, and ventilated by a furnace. The product is shipped by river, to the West and South.

Rock Run Mine—Culp & Gamble, Operators.

This colliery is located on the west bank of the Monongahela river, just above Camden, Allegheny county, and consists of a drift, which is nearly worked out. The coal is run down an incline plane to the river where it is loaded into boats.

Allequippa Mine—Whigham, Bailey & Co., Operators.

This colliery is located on the west bank of the Monongahela river, near Camden, Allegheny county, and consists of a drift, and shaft sunk for ventilation. The work has progressed into the third hill. The coal is hauled from the face of the workings by mules, and run down two incline planes to the river, and there loaded into boats and barges for the West and South.

Camden Mines—George Lysle & Sons, Operators.

This mine is located at Camden, on the west bank of the Monongahela river, three miles south of McKeesport, Allegheny county. The work has progressed into the third and fourth hills, the hauling being done by mules, to the head of an incline plane, over which the coal is run to the river, and from here shipped West.

Amity and Dravo Mine—J. C. Risher, Operator.

This colliery is situated on the west bank of the Monongahela river, at Dravosburg, Allegheny county, and consists of two drifts. The coal is hauled by mules to the head of an incline plane, and there screened and run down to the river, from where it is shipped to market.

Stone's Mine—William Stone's Heirs, Operators.

This colliery is situated on the west bank of the Monongahela river, opposite McKeesport, Allegheny county, and consists of two drifts. The coal has been run out of the first and second hills, and work is progressing in the third, where operations are being carried on. Nearly a mile of coal railroad, and two expensive trestle-work bridges, have been built. Mules do the hauling to the head of an incline plane, down which it is run to the river, and shipped to the Western market.

Neel & Oliver's Mine—William Neel, Operator.

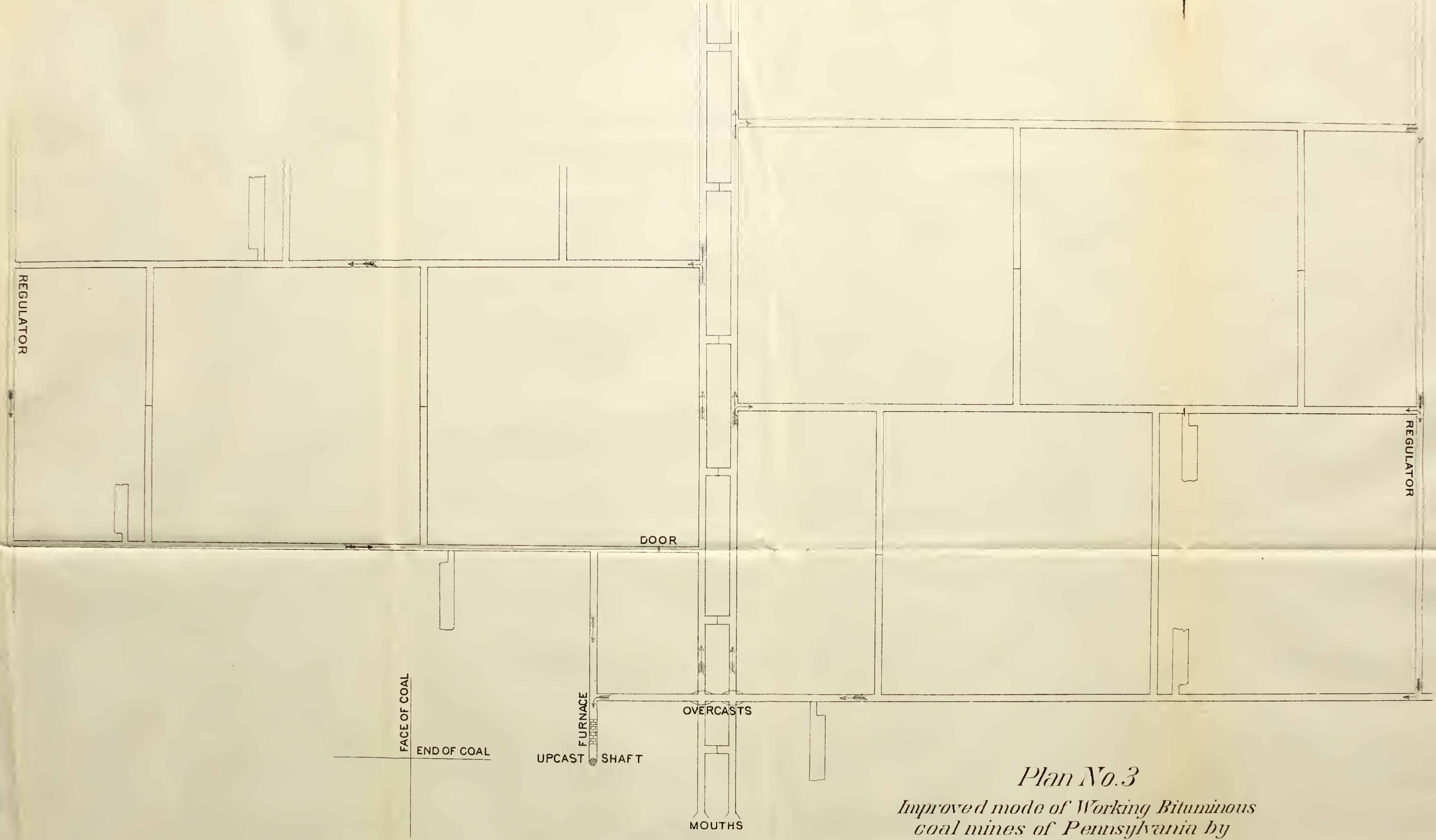
This colliery is located on the west bank of the Monongahela river, opposite McKeesport, Allegheny county, and consists of a drift, opened through the hill. Work is being carried on in the first and second hills, the first being nearly worked out. The product is run over an incline plane, and shipped, by river, to market.

Kenney's Mine—A. H. Kenney & Co., Operators.

This colliery is situated on the west bank of the Monongahela river, three miles below McKeesport, Allegheny county, and consists of two drifts, both of which are nearly worked out, nothing remaining but a few pillars. The mine will be closed in a short time.

Redman & Fawcett, Operators.

This colliery is located on the west bank of the Monongahela river, opposite Braddock's Fields, Allegheny county, and consists of a drift, opened in the second hill, the first having been worked out. The coal is hauled out from the second hill, two miles, by means of an endless wire rope and steam power, to the head of an incline plane, over which it is run to the river, where it is shipped to the markets.



Plan No. 3

Improved mode of Working Bituminous coal mines of Pennsylvania by William Wilcox, Inspector

Scale 125 ft = 1 inch.

Sandy Run Mine—Sandy Run Coal Company, Operators.

This colliery is situated near Hopewell, on the Bridgeport and Bedford Railroad, in Bedford county. From Hopewell, a branch road has been built to the mines, which consist of a drift. The coal here lies in troughs or basins, is anticlinal, and of a soft, semi-bituminous character. The coal is taken out on a level with the head of the road, and finds a market in the east, over the Pennsylvania railroad.

Mount Equity Mine—Kimble Coal and Iron Company, Operators.

This colliery is situated near Riddlesburg, on the Bridgeport and Bedford Railroad, Bedford county, and consists of a drift. The coal is semi-bituminous, and very soft; it is broken up very fine and passed through a washer, which cleans it of all impurities; after which it is made into coke, and used for reducing the iron ore in this firm's large furnaces. A branch road leads to the mine, over which the coal is run.

Conard Shaft—R. B. Wigton, Operator.

This colliery is located at Coaldale, on "Six Mile Run," three miles east of Riddlesburg, Bedford county, and consists of a shaft and slope. The shaft is used for hoisting, and the slope for ingress and egress. The coal is of a soft, semi-bituminous nature, and is used chiefly for the manufacture of iron, being shipped over the Pennsylvania railroad to the Eastern market.

Willow Grove Mines—Dickson, Stewart & Co., Operators.

This colliery is located on the east side of the P. C. & St. L. railway, two miles east of McDonald's station, in Allegheny county, and consists of a drift, which has been in operation ten years. The coal is run out on a level with the tipple, and shipped over the railway to the Pittsburgh market.

Williams' Mine—Thomas S. Williams, Operator.

This colliery is situated on the Saulsbury branch, which leaves the Baltimore and Ohio Railroad at Myersdale, Somerset county, and consists of a drift. This is a new mine, having been opened last summer. The coal is semi-bituminous, and lies near the top of the hill, being run down an incline plane to the railway, and shipped to the Eastern market.

Keystone Mine—Keystone Coal and Manufacturing Company.

This colliery is located two miles south of Myersdale, Somerset county, and about twelve miles west of "Sand Patch," (which is the summit of the Allegheny mountains.) From Keystone Junction, on the B. & O. R. R., a narrow-gauge road has been built, three miles, which crosses the Castleman river, and the Saulsbury branch, near the mines. Two locomotives are used to haul the coal over this road to the main line. The colliery consists of two drifts, opened in eight feet of good, semi-bituminous coal, and is reached by means of an incline plane. The ventiiation has been very much neglected. The entire product of this mine is shipped over the B. & O. R. R. to the Eastern markets.

Shaw Mines—Cumberland and Elk Lick Coal Company, Operators.

This colliery is located on the Saulsbury branch, two miles south of Myersdale, Somerset county, and consists of a drift. The coal, (which is semi-bitumiuous,) is eight feet thick, and of good quality; and is hauled out by mules to the head of an incline plane, over which it is run to the railway below, and shipped over the B. & O. R. R. to the Eastern markets. A shaft has been sunk for ventilation; but beyond that little or nothing has been done. The mine generates carbonic acid gas, and requires proper ventilation to carry it off, and render it harmless to the miners.

Berlin Mines—Thomas Reese & Co., Operators.

This mine is located at Berlin, on the Berlin branch of the B. & O. railway, which leaves the main line at Garret station, Somreset connty, and consists of a drift, opened in three feet nine inches of semi-bituminous coal, which is of good quality, and finds a market East, over the B. &. O. railroad.

Pittsburgh and Connellsville Gas Coal and Coke Company, Operators.

Their two collieries are situated at Connellsville, on the B. & O. R. R., in Fayette county, and consist of a shaft and slope—the two being connected. The slope is sunk one hundred and twelve feet, on a thirty degree dip, through which the coal is hoisted by steam power. The shaft is sunk one hundred and one feet, near the bed of the Youghiogheny river, and is used for hoisting the coal, (which is done by machinery.) Three powerful steam pumps are used to drain the mines. This is the center of the great coke region of Pennsylvania, and the entire product of the two mines is made into coke.

Henry Clay Mines—H. C. Frick & Co., Operators.

Mine No. 2 is located at Bradford, on the B. & O. R. R., Fayette county, and consists of a slope, sunk ninety feet on a thirty-three degree dip, into eight feet of coal, which is hoisted out by wire rope and steam power.

Mine No. 1 is located on the Mt. Pleasant branch, and consists of a drift. The coal is hauled out of the mines on a level by mules to the tipple. At both of these mines there is a number of coke ovens, and the whole product, (as it comes out of the mines,) is dumped into the ovens, and made into coke, and shipped to market over the B. & O. R. R.

Tyrone Mines—Laughlin & Co., Operators.

This colliery is situated just below Broadford, on the B. & O. R. R., in Fayette county, and consists of a drift. The coal is hauled out of the mine by mules, on a level with the tipple, and dumped into the ovens, and made into coke. It is then shipped over the said road to market.

Brown & Cochran Mines—Brown & Cochran, Operators.

No. 1. This colliery is located one mile below Broadford, on the B. & O. railroad, in Fayette county, and consists of a drift.

No. 2 is located on the Hickman branch, near Dawson station, Fayette county, and consists of a drift.

No. 3 is located on the west side of the same road, a little higher up, and consists of a drift, opened in eight feet of coal. At all of these mines, the coal is hauled out of the mine on a level with the tipple, and run into coke ovens, (a number of which are connected with each mine,) and the whole product of the mines is made into coke, which is shipped over the B. &. O. railroad to the Monongahela river, from there to the West.

Spring Grove Mine—Cochran & Kester, Operators.

This colliery is located on the west side of the Hickman branch, near its junction with the B. & O. railway, in Fayette county, and consists of a drift. A number of coke ovens are connected with the mine. The product is hauled out by mules and made into coke.

Jackson Mines.

This colliery is located on the B. & O. railway, two miles below Broadford, Fayette county, and consists of a drift. The coal is hauled out on a level with the tipple, and made into coke, and shipped West over the B. & O. railroad.

Jacobs' Creek Mines—Fox, Kifer & Co., Operators.

This colliery is located at Jacobs' creek, on the B. & O. railroad, in Westmoreland county, and consists of a drift opened in the Pittsburgh seam, in six feet of coal. This is a new mine, having been open only a few months. The coal is of good quality, and finds a market East, over the B. & O. R. R.

Waverly Coal and Coke Works—Waverly Coal and Coke Co.. Operators.

This colliery is located at Smith's mills, on the B. & O. R. R., Westmoreland county, and consists of a drift. The coal is nearly six feet thick, of good quality, and finds a ready market. A coal road has been built from the main line to the mine, a distance of one fourth (¼) of a mile, over which the coal is shipped to the B. & O. railroad, thence to the Pittsburgh market.

Ocean Mine—Thos. Moore, Operator.

This colliery is situated at Moore's station, on the B. & O. railroad, Westmoreland county, and consists of a drift. The coal is run out of the mine on a level with the tipple, and shipped over the B. & O. R. R. East. The mine is worked on the system of double headings, and ventilated by a shaft and furnace.

Walton & Co.'s Beck's Run Mines—Walton & Co., Operators.

These mines are located on the west bank of the Monongahela river, five miles south of Pittsburgh, Allegheny county, and consist of three drifts opened in the second hill, (the first being worked out.) The coal is hauled by wire rope and steam power two miles, to the head of an incline plane, down which it is run to the river, where it is shipped West and South. The telegraph is in use as a means of communication from each end of the mine. In November last, a fire occurred in this mine. Some wood work connected with the steam boiler, used for generating steam to work the pumps, caught fire and communicated with a wooden stack on the top of the shaft, which in turn communicated with a post pile which surrounded it, and a terrible conflagration was the result. It defied all efforts to subdue it for some time, but was finally confined and securely fenced off, by building dams nine feet thick, and covering up the shaft, thereby excluding the air. The fire is still smouldering, and the shaft has not been opened yet.

Armstrong's Mines—Chas. H. Armstrong & Son, Operators.

This colliery is located at Armstrong station, on the B. & O. railroad, Westmoreland county, and consists of a drift. The coal is run down a short incline plane to the railroad below, and shipped to the Pittsburgh market. The mine is ventilated by shaft and furnace.

Corey & Co.'s Mine—Corey & Co., Operators.

This colliery is located at Braddock's Fields, on the Penna. railroad, Allegheny county, and consists of a drift. The coal is run over a double track incline plane, six hundred yards long to the railroad, and shipped to the Pittsburgh market.

Oak Hill Mine—Dickson, Stewart & Co., Operators.

This colliery is located at Brinton, on the Penna. railroad, south side, Allegheny county, and consists of two drifts, both of which are nearly worked out. The coal is hauled with mules to the head of an incline plane, and run down said incline plane to the railroad, and shipped to Pittsburgh.

White Ball Mine—Yough Coal Hollow—Coal Hollow Co., Operators.

This colliery is located at Shaner's station, on the B. & O. railroad, in Allegheny county, and consists of a drift. The coal is hauled out on a level with the tipple, and shipped over the B. & O. R. R. The mine is worked on the system of double headings, and is ventilated by the steam exhaust and furnace, under the boiler, used for generating steam to work the pump, used to drain the mine.

Penney's Mine—John Penney, Operator.

This colliery is situated on the south bank of the Youghiogheny river, one mile from McKeesport, Allegheny county, and consists of a drift, opened in five feet of coal. The coal is hauled to the head of an incline plane, over which it is run to the river, where it is screened, and shipped West and South.

O'Neil's Mine—Jas. O'Neil, Operator.

This colliery is located at Boston, on the Youghiogheny river, in Allegheny county, and consists of a drift. The mine is reached by means of a narrow gauge railroad, two miles long, built by the firm, over which the coal is hauled by a locomotive to the river, where it is shipped to the West and South.

Cornell & Werling Mine—W. H. Brown's Heirs, Operators.

This colliery is located at Boston, on the Youghiogheny river, five miles from McKeesport, Allegheny county, and consists of a drift. The coal is hauled out of the mine by an endless wire rope and steam power, and is run down grade one and a half miles to the tipple, (by another wire rope and steam power,) where it is loaded into boats for the West and South. The screening of the mine is washed in troughs, and the product shipped by river.

Osceola Mines—Miners' Co-operative Company, Operators.

This colliery is located at Osceola, on the Baltimore and Ohio railroad, in Allegheny county, and consists of a drift. The coal is hauled by mules to the head of an incline, and run down said incline to the railroad, and there shipped to market.

Alpsville Mine—N. J. Bigley, Operator.

This colliery is located at Alpsville, on the Baltimore and Ohio railroad, Allegheny county, and consists of two drifts, opened through the hill. The coal is hauled by mules, and lowered, by means of an incline plane, to the railroad, where it is loaded into cars, and shipped to market.

The Turtle Creek Mines.

Owned and operated by the New York and Cleveland Gas Coal Company. The ventilation and drainage of both these mines was found to be very good.

The Saltsburg Mines,

Owned and operated by W. H. Brown's heirs, were visited next, and found to be in a very satisfactory condition, and the law being complied with.

These mines were found, with three or four exceptions, to be in very bad condition. The Summit Mines, the Dexter Mines, the Tip Top Mines, the Overton Mines, and the Eagle Mines, are the best, and with a small outlay can be made all that the law requires. In the balance of the mines little or no attempt is made to ventilate them; and in many of the mines, not a single door is used to assist and direct the small natural currents which flow through the mine. The system of mining here will have to be changed before the mines can be properly ventilated. This coal is very thick—nine feet—and if the workings were arranged properly, ventilation would be easily accomplished. But in the rush to make money, the health and comfort of the miner is (as far as pure air) never thought of, and no attention is paid to the matter of proper ventilation for the mines. The valley in which the Mount Pleasant Branch is built is lined on both sides with coke ovens, which are kept in constant operation, and the smoke from the burning coke enters the mines, being very troublesome. Care should be taken to have the air enter at a point where it is pure, and not mixed with smoke. On the Mount Pleasant Branch alone, a distance of ten miles, there is twenty-four mines, each one having a number of coke ovens, (for the whole product is made into coke,) amounting in all to fifteen hundred, thirteen hundred and fifty of which is in full blast; and this is only one branch of the great coke region whose fame has spread over the United States. This is truly a favored spot; for I know of no place where coal can be mined and made into coke as cheap as it can be done here. At many of the mines the coal is run into the ovens just as it comes from the miner's pick, and with no more expense and labor than is usually employed in dumping the coal into cars for shipment by the railroad. The charge consists of one hundred bushels of coal, which is allowed to burn forty-eight hours, and is then drawn and shipped by railroad and river to market. The coke-drawer receives sixty cents per oven for his labor, and the miner seventy-five cents per hundred bushels for mining the coal.

The Larimer Mine, No. 1,

Is located at Larimer Station, Westmoreland county, and is owned and operated by the Westmoreland Coal Company. It consists of a drift, and was opened about eight years ago. A large ventilating furnace has been built here, and the air-current properly arranged in separate splits, and is very satisfactory. The coal is hauled by mules on a level with the tipple, where a track has been built half a mile, to the main line of the Pennsylvania road, over which the coal is shipped to the Eastern market.

The Springhill Mines

Is located at Springhill, on the line of the Pennsylvania railroad, and consists of a drift, which has been in operation ten years. The mines are owned and operated by the Westmoreland Coal Company. The product of this mine goes to supply the locomotive engines on the main line of the Pennsylvania railroad. At this point, the coal seam is located three hundred feet above the level of the railroad track, and is reached by means of an incline plane, nine hundred feet long. From the top of the incline, a track has been built, eight hundred yards to the pit mouth, over which the coal is hauled. Operations are being carried on in the second and third hills—the first being worked out. Ventilation and drainage is good.

Turtle Creek Mines, No. 3.

This colliery is located at Turtle creek, in Wilkins township, Allegheny county; and consists of a drift It is owned and operated by the New York and Cleveland Gas Coal Company, and has been in operation a number of years. From the main line of the Pennsylvania railroad, a branch line of two miles, to mine No. 4, has been built, over which the coal is run. The coal lies very high up the hill, and is reached by an incline plane, one thousand one hundred feet long, which conducts it to the railroad below, where iti s shipped to market. Ventilation is effected by furnace.

Colliery No. 4 is located half a mile further up the company's line, and is owned and operated by the same company. The coal lies two hundred and seventy-five feet above the railroad track, and is reached by an incline plane, one thousand feet long—the coal being hauled to the head of said incline by mules. This is a very good mine, the roads being level, free, and in good condition. Mining operations are being carried on in the first, second, and third hills. The mine has a capacity of nine hundred tons per day. The product of these two mines is shipped to Cleveland by rail, thence by lake to Chicago, and other markets.

Jones & Loughlin's Mine

Is located on the South Side, Pittsburgh, and is owned and operated by the great iron firm of Jones & Loughlin, whose large iron works are located at Brownstown, South Side, and where the product of the mine is consumed. The coal lies high up the hill, and is reached by incline plane. A locomotive engine is employed to haul the coal from the fourth hill, a distance of two and one-half miles, under ground, where mining operations are carried on. Two hundred and ninety mine cars, and over three miles of T iron track, are in use here; and over one hundred acres of coal yet remain to be taken out. A shaft has been sunk, and a large ventilating furnace is being constructed, which will insure a constant supply of pure air. Two visits have been made here.

The Midway Block Coal Mines

Is located at Midway, Washington county, and are owned and operated by Taylor, Ulp & Co., and has been in operation about eight years. It consists of two drifts, opened in what is called the Block Coal, five feet thick, which is the equivalent of the Pittsburgh seam. The coal seam lies below the railroad track, and is lifted by steam power. Twenty-five mine cars, two thousand two hundred yards of wooden road, and four hundred yards of T iron track are in use. Ventilation is effected by steam exhaust from the pump. The mine has a capacity of three hundred tons per day. Two visits have been made here.

The Keystone Mines,

Owned and operated by W. H. Brown's heirs, are located at Saltsburg, on the east bank of the Monongahela river, twelve miles south of Pittsburgh, Allegheny county, and are three in number. Nos. 1 and 2 are worked together, the coal being run down the incline plane. These two mines have been in operation nearly twenty years, and a great amount of coal has been mined. The workings extend back from the river nearly three miles, new headings being opened as fast as required. The coal seam lies two hundred and fifty feet above the river, and is reached by incline plane, seven hundred and fifty feet long. The inside hauling is done by mules to the head of the incline. Connected with the works is a number of coke ovens, not in use. The capacity of the two is one thousand tons per day.

The McCluskie Mine

Is located at Port Perry, on the east bank of the Monongahela river, in Allegheny county, and is owned and operated by W. H. Brown's heirs. This mine was opened, and for a number of years was operated by Mr. McCluskie, by whom it was sold to the present owners, two years ago. It consists of two drifts, and, like the Keystone Mines, the coal is reached by incline plane, six hundred and twenty-five feet long, which conveys the coal to the river below. The coal of these mines is of very good quality, and finds a market, by the Monongahela and Ohio rivers, in the West and South. This firm owns twelve powerful steam tow boats, and hundreds of coal boats and barges.

The Bowerhill Mine

Is located on the Chartiers Valley railroad, three miles south of Mansfield, Allegheny county. It consists of a drift, and is operated A. J. Schultz. The mine has been opened three years. Since it came into the hands of Mr. Schultz, a new tipple has been built and the road overhauled, and is now in fair running order. The coal is hauled out of the mine on a level, and finds a market over the Panhandle road.

The Summerhill Mine

Is located at Woodville, on the east side of the Chartiers Valley railroad, Allegheny county. This is a new mine, having been opened one year ago. It is now operated by A. G. Negley & Co. It consists of a drift. Two headings have been opened to daylight, one of which drains the mine. Four hundred yards of T iron track, twenty-four mine cars, and three hundred yards of railroad track are in use. Two visits were made here.

The Morgan Mine

Is located at Broadford, on the west side of the Mount Pleasant branch, in Fayette county. It was formerly operated by Morgan & Co., but is now leased to H. C. Frick & Co. It consists of a drift, opened in nine feet of coal. The hauling inside is done by mules, to the mouth of the mine, where the coal is dumped into an iron wagon, used for charging the coke ovens, then run over the mouth of the ovens and dumped. Ninety-seven coke ovens are run in connection with the mine, and the coal is made into coke, and shipped to market.

The Globe Mines

Are situated on the east side of the Mount Pleasant branch, one mile from Broadford, Fayette county. This mine was opened by the present operators, A. A. Hutchinson & Bros., in 1873, by whom it has been operated since. It consists of two drifts, running north-east. The coal is hauled out of the mine on a level. The entire product is made into coke. Connected with the mine, is seventy-nine ovens. About sixty acres of this coal yet remain here, to be taken out.

The Mines of Strickler & Lane

Are located just opposite the Globe Mine, on the Mount Pleasant branch, in Fayette county. This is a small mine, employing twelve miners. The forty-four coke ovens connected with the mine consume the coal produced, employing twelve hands in drawing the coke. The mine has been in operation since 1872, and during that time about ten acres of coal have been mined. Twenty-five acres yet remain to be taken out.

The Summit Mine,

So called because at this point the railroad track falls both ways, was opened in the summer of 1873, by Hurst, Moore & Co., is located on the west side of the Mount Pleasant branch, three miles north of Broadford, and are operated by James Cochran & Co., and consist of two drifts. The coal is hauled out of the mine on a level, and dumped into the charger, which is run alongside of the coke ovens, one hundred in number, and the whole product of the mine is made into coke. Mr. Cochran deserves credit for what he has done, in erecting a furnace to ventilate his mine—the only one on this road. I hope his brother operators will soon follow his example.

The Eagle Mines

Is located just opposite the Globe mines, on the west side of the Mount Pleasant branch, and is operated by Markle, Sharrock & Co. It consists of two drifts, running south-west. This mine has been in operation a number of years. A shaft has been sunk, one hundred feet deep, for ventilation, which renders it one of the best ventilated in the coke region. Eighty coke ovens are kept constantly in use here. An iron track has been laid over the top of the ovens, and the wagons are dumped into the ovens as they come out of the mine. Thirty-seven acres of coal yet remain to be mined. The mine has three openings, and the drainage is good.

Tip Top Mine,

Owned and operated by Charles H. Armstrong & Son, is located one mile north-west of the Summit mine, on the same side of the Mount Pleasant road, and consists of a single heading, driven through the hill, a distance of five hundred yards, on the dip of the coal. This mine has been in operation two years. About seventy acres of coal remain yet. The product of the mine is made into coke, in the forty-one ovens connected with the mine.

The Valley Mine,

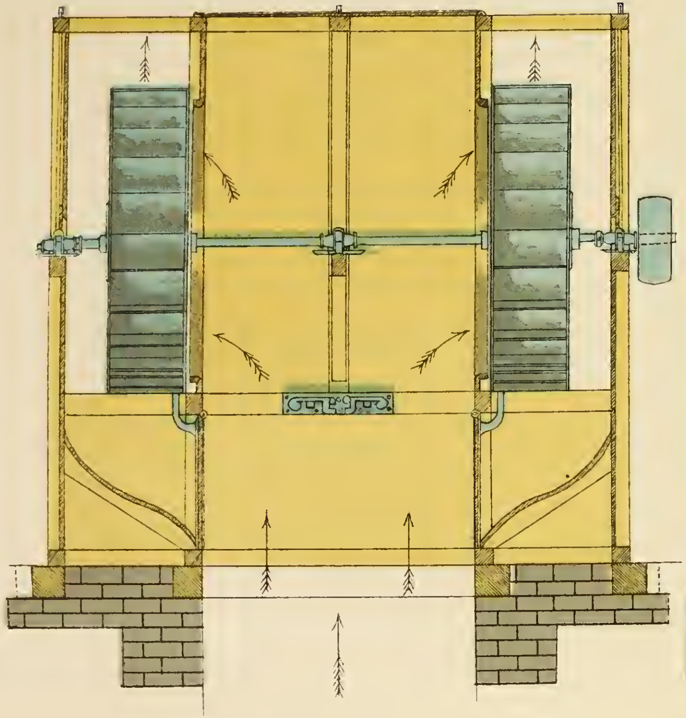
Operated by H. C. Frick & Co, is located near Fountain hills, on the Mount Pleasant railroad. This colliery was opened by the owners, (Wilson, Boyle & Playford,) five five years ago, by whom it was operated for some time. It consists of a drift, running south-east. The coal is hauled out of the mine, on a level, by mules. Sixty acres have been mined, and three hundred and forty acres yet remain. One hundred and two coke ovens are connected with the mine, and the product is made into coke, and shipped to market over the B. and O. railroad.

The Home Mines

Is located on the South-West railroad, near its junction with the Mount Pleasant road, on the same side as the Valley mine. Twenty-one coke ovens are connected with the mine. This mine only employ six or eight miners, and does not come under the Mining law.

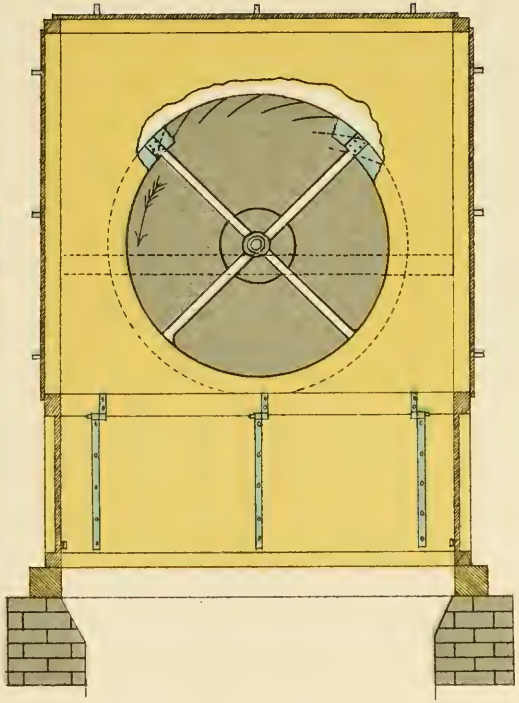
THE MURPHY OR CHAMPION VENTILATOR.

No. 8 10 FEET DIA.

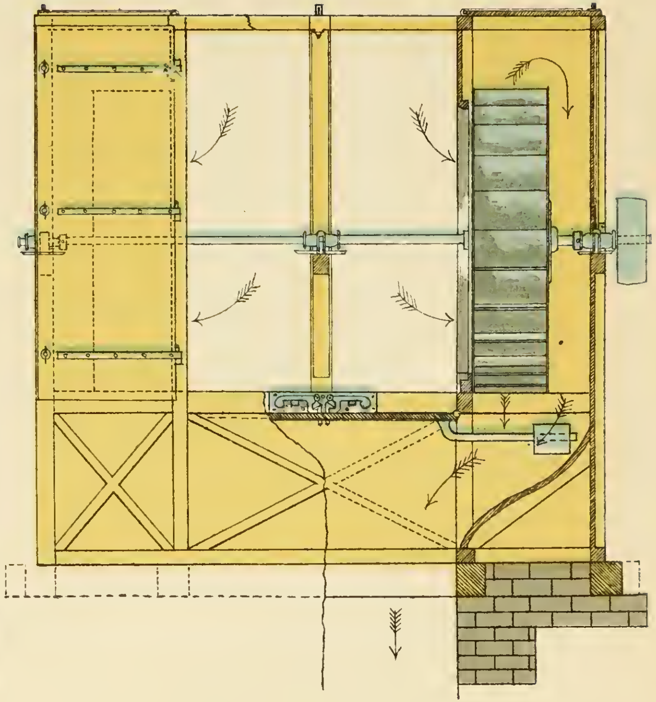


AS EXHAUSTER.

LONGITUDINAL SECTION.



CROSS SECTION.



AS BLOWER.

LONGITUDINAL SECTION AND SIDE ELEVATION

WILLIAM WILCOX. INSPECTOR
OF MINES 1ST DIST.

The Furnace Mines

Is located on the Mount Pleasant branch, near Scottdale. The mine is owned and operated by Everson, Marcrum & Co., who own and operate the Scottdale Furnace and Iron Works. It was opened in 1872. The furnace is located just opposite, on the other side of Jacobs creek, in Westmoreland county. Fifty-one coke ovens are connected with the works. A part of the coal is consumed at the mill; the balance is made into coke, and used in reducing the iron ore in the furnace.

Kifer's Mine

Is located near the last one. Has thirteen ovens, and has a force of six miners. Not coming under the law, it was not examined.

Lake & Co. Mine

Is just alongside Kifer's, and has fifty coke ovens, but was not in operation at the time of my visit, and was not examined.

The Dexter Mine

Is located at West Overton station, on the Mount Pleasant road, in Fayette county. It was opened in 1873, by Mr. Stauffer, by whom it has since been operated. This is a small mine, consisting of two headings, driven through to the Painter Mine. A shaft has been sunk for ventilation. Thirty-five coke ovens are run in connection, and the product is made into coke. There is thirty-five acres of coal yet remaining.

The Painter Mine

Is located just above Stauffer's, on the same side of the road. It consists of a drift opened on the face of the coal. It was opened in 1873, by William Strickler, and was operated by Mr. Painter for nearly five years. Samuel White, the present operator, leased it last June. There is seventy coke ovens connected with the mine, aud the product is used by them.

Staufft's Mine

Is just above the Painter Mine. Has thirty ovens, and works seven mines, and consequently don't come under the ventilation law.

The West Overton Mine

Is located at West Overton, one mile from the Mount Pleasant branch. The mine is reached by railroad one mile long, which leaves the Mount Pleasant road at West Overton station. It was opened in the summer of 1873, by A. S. Overholt, by whom it has since been operated. It consists of a double heading run on the end of the coal until it strikes the crop line. Here a shaft has been sunk for ventilation. The mine has sixty-two ovens. Three thousand five hundred bushels of coke are made daily. This mine is in Westmoreland county.

The Rising Sun Mine

Is located at the head of another branch road, which leaves the Mount Pleasant road at the iron bridge, one mile north-west of West Overton station, in Westmoreland county. It was opened in 1872 by the present operators, Markle & Co., by whom it has since been run. There is seventy coke ovens. The total product is made in coke, and hauled to the main branch by the company's locomotive. Two small shafts have been sunk for ventilation. Four thousand bushels of coke are made daily, and sixty acres of coal yet remain to be mined.

The Emma Mine,

Owned and operated by J. R. Overholt, is situated just opposite the Rising Sun. The firm has thirty coke ovens in operation, but only have nine hands employed in the mine, and on application to inspct the mine, they claimed to be exempt from the law, and the mine was not examined.

The Buckeye Mine

Is located at Stauffer Station, on the Mount Pleasant branch, in Westmoreland county. It was opened by the present operator, John M. Cochran, in 1873. It consists of two drifts, opened on the dip of the coal. There is one hundred and ten acres of coal yet remaining to be mined. The coal is hauled to the coke ovens, sixty in number, and made into coke. A Camrion steam pump drains the mine, and ventilation is produced by steam exhaust from the pump.

Stauffer's Mine

Is located at Stauffer's Station. It employs six miners, and does not come under the mining law. Eighteen ovens are connected with the mine, and the product is made into coke.

Mullen's Mine

Is located one mile north-west of Stauffer's Station, on the Mount Pleasant branch, Westmoreland county. It consists of a slope two hundred feet long, on an easy grade. The coal is hoisted out of the mine by horse-power, and made into coke. A shaft has been sunk at the upper end of the workings, for ventilation. This colliery was opened in 1872, by Mr. Mullen, by whom it has since been operated. Sixty ovens are kept constantly in operation, and about seventy acres of coal yet remain to be mined.

Boyle & Hazlett's Slope, No. 1,

Is located just above Mullen's Slope, on the same side of the road, in Westmoreland county, and was opened by said company, in 1873, and has since been operated by them. There are seventy-eight coke ovens here, which are charged every forty-eight hours—thirty-nine being charged each day. The coal is hoisted out of the mine by wire rope and steam power, to a platform, where it is dumped into the charger, and conveyed to the ovens. A small shaft has been sunk, and a steam pump erected, which drains the mine. There is about seventy acres of coal yet remaining, to be mined. Ventilation was found to be very defective, and preparations are making to remedy it.

Boyle & Hazlett's Slope, No. 2,

Is located opposite No. 1, on the west side of the road. This mine was opened in 1872, by John Moyers, by whom it was operated for some time. There are one hundred and six coke ovens here, which receive the coal as it comes from the mine. A steam pump is employed to drain the mine. About ninety-five acres of coal yet remain. The ventilation of this mine was found to be very bad, and the superintendent promised to attend to it immediately.

Duncan & Bro's. Slope

Is situated at Mount Pleasant, and is not in operation, the working being full of water.

President Moorhead's Review of Last Year's Business—Transportation Statistics—Officers Elected.

The annual meeting of the stockholders of the Monongahela Navigation Company was held yesterday afternoon, at the office of General J. K. Moorhead, on Diamond street. The President of the board of directors, Mr. Moorhead, submitted his annual report, reviewing briefly the destruction created among river craft in the Monongahela, by the great flood of last January. The damage done exceeded any that has occurred on the navigation since its construction. After these losses, fears were entertained that there would be a large reduction in the shipments of coal, for want of facilities, but the coal men went to work with renewed energy, and in ninety days a large amount of tonnage was launched, sufficient for every want. At the time of the break-up, the outlook, as regards navigation property, was alarming. The locks suffered seriously from the heavy masses of ice submerging the walls, and carrying away the rigging and machinery, and especially at Lock No. 3, where it carried away the gates, and at No. 1, where it swept away a new office. The dams suffered less, except No. 6, which was badly injured. The destruction of boats and barges caused many serious obstructions to navigation, and heavy expenses to the company in dredging and clearing the channels. The delays caused by repairs and damages, involved the loss of one month's navigation. The report states, that the completion of the Davis Island dam, in the Ohio, will add several feet to the depth of water below Lock No. 1, and enable boats drawing six and seven feet of water to pass at the lowest stage to the Pittsburgh wharf. The business of the company during the year was good, and beyond the expectations of the early part of the season. An increase in trade is anticipated, from the oil production of the Dunkard region, and the building of coke ovens along the river in Fayette county. The improvement will be still more marked, if the Government should complete the dam below Morgantown, now nearly finished, which would give continuous navigation to that place. The receipts of the year were as follows: From coal and slack, $141,254 60; from coke, $8,037 47; from freight, steam and tow-boats, empty craft, lumber, &c., $72,402 59; from passengers, $6,295 37. Total, $227,990 03. This is an increase over the revenue of 1876, of $15,475 45, notwithstanding reductions in toll were made on a number of articles. The receipts of the several locks were as follows: Lock No. 1, $63,609 38; Lock No. 2, $80,336 58; Lock No. 3, $30,908 07; Lock No. 4, $45,299 25; Lock No. 5, $1,299 08; Lock No. 6, $6,537 67. Total, $227,990 03. The shipments of coal from the various locks were as follows: No. 1, 12,452,700 bushels; No. 2, 34,763,100 bushels; No. 3, 11,056,800 bushels; No. 4, 14,430,200 bushels; total, 72,702,800 bushels. The shipments of coke aggregated 6,778,118, showing an increase on coal and coke of 10,999,918 bushels.

List of Operators of Allegheny County, Pennsylvania.

McCabe, Clark & Co., Bridgeville.
David Boden, Mansfield Valley.
J. M. Kelley, Mansfield Valley.
Huntsman, Miller & Co., Marion avenue, Allegheny City.
Wittengel & Gormley, West Pittsburgh.
Thomas Fox, Thirty-sixth ward, Pittsburgh.
Gray & Bell, Thirty-sixth ward, Pittsburgh.
Robert Bell, Mansfield Valley.
Fort Pitt Coal Company, Walker's Mills.
David Steen & Sons, Mansfield Valley.
George W. Schluderberg, Box 784, Pittsburgh.
Morris McCue, Third and Try streets, Pittsburgh.
Robert Marshall, Noblestown.
Hartley & Marshall, Thirty-sixth ward, Pittsburgh.
Armstrong, Dickson & Co., White Ash Post Office.
John Blythe, Wilkinsburg.

Pittsburgh and Castle Shannon Coal Company, South Side, Pittsburgh.
Joseph Keeling & Co.
H. B. Hays & Bro., 144 Water street, Pittsburgh.
T. D. Risher, Hope Church Post Office.
Jacob Weinman, Wilkinsburg.
Duquesne Coal Company, Wilkinsburg.
Correy & Co., Bradocksfield Post Office.
John Carlin & Co., Thirty-sixth ward, Pittsburgh.
Waverly Coal Company, Wood street, Pittsburgh.
J. C. Risher, Dravosburg.
James O'Neil, McKeesport.
William Neel, McKeesport.
George Lysle, McKeesport.
Whigham, Bailey & Co., McKeesport.
Gumbert & Huey, Coal Valley Post Office, McKeesport.
O'Neil & Co., West Elizabeth.
William Jones, Elizabeth.
N. J. Bigley, Alpsville.
Youghiogheny Coal Hollow Coal Company, Pittsburgh.
John D. Negley, Carson street, South side, Pittsburgh.
Wood, Srader & Co., Elizabeth.
Robert Doak, White Ash Post Office.
Wood, Lynn & Co., Pine Rim, Coal Valley Post Office.
George Lysle, 69 Water street, Pittsburgh.
J. W. Clark, No. 3 Smithfield street, Pittsburgh.
Gulp & Gamble, Coal Valley Post Office.
Robert Woods, Elizabeth.
Pittsburgh and Connellsville Gas Coal Company, 83 Wood street, Pittsburgh.
Horner & Roberts, Elizabeth.
A. H. Kenney & Co., Bradock's Post Office.
G. & W. Jones, 10 Smithfield street, Pittsburgh.
Robbins & Jenkins, McKeesport.
A. A. Hutchinson & Bro., Pittsburgh.
William Stone's heirs, McKeesport.
James O'Neil, Boston Post Office.
Foster, Clark & Wood, McKeesport.
Jehu P. Smith, 137 First avenue, Pittsburgh.
John Penney, McKeesport.
T. S. Neel, No. 10 Smithfield street, Pittsburgh.
Dickson Stewart, Bradockfield.
Robbin, Linn & Co., Sunnyside.
Hoggsett, Watt & Co., Braddock's Post Office.
Phillips & Mittenzway, Twentieth and Water streets, Pittsburgh.
New York and Cleveland Gas Coal Company, 89 Wood street, Pittsburgh.
Patterson & Co., Mansfield Valley.
William Hodgens, West Elizabeth.
William H. Brown's heirs, Water street, Pittsburgh.
Walton & Co., Water street, Pittsburgh.
Redman & Fawcett, Braddocksfield.

Westmoreland County.

John Gilmore, Webster.
Millwood Coal and Coke Company, Millwood Station.
Westmoreland Coal Company, Irwin Station.
Penn Gas Coal Company, Irwin Station.
W. E. Goeffey, Webster.
Shafton Coal Company, Irwin Station.

Isaacs & Overholt, Mount Pleasant.
Impson, Lake & Co., Scottdale.
Jacob Tomer, Webster.
Greensburg Coal Company, Greensburg.
Samuel Wardin & Co., Mount Pleasant.
Hurst & Stoner, Mount Pleasant.
Wilson, Boyle & Playford, Scottdale.
Loyalhanna Coal Company, Latrobe.
Graft, Bailey & Co., Coketon.
Morgan & Co., Latrobe.
Heath & White, West Newton.
Youghiogheny Shaft Company, West Newton.
Gilling & Tomer, Webster.
Neel, Schall & Co., Mount Pleasant.
A. R. Overholt, West Overton.
Warden & Co., Mount Pleasant.
Charles H. Armstrong & Son, Armstrong Station.
Lynch & Robinson, Webster.
Fox Kipper, Jacob's creek.
Pittsburgh Coal and Mining Company, Latrobe.
Painter & Fox, Greensburg.
Saltsburg Coal Company, Fairbank Station.
Saltsburg North-west Coal Company, North-west Station.
Laupman & Co., Appolo.
Saltsburg Coal Company, Leechburg.

Washington County.

Taylor, Ulp & Co., Midway.
T. B. Robbins & Co., Midway.
Morgan & Dixon, California.
Joseph Garrow, California.
Scully & Co., Coal Bluff Post Office.
V. Harding, Washington.
Crawthers, Musgrave & Co., California.
Wood & Huston, Pike Run Post Office.
W. P. Rend, McDonald station.
Hodgson & Mort, Coal Bluff Post Office.
J. W. Reed & Co., Greenfield.
Crow & Sons, Pike Run Post Office.
Thomas S. Hutchinson, Monongahela City.
Wellington & Co., Pike Run Post Office.
William B. Huston, Coal Bluff Post Office.
Robinson & Bro., Monongahela City.
Lewis Steab, Monongahela City.
Coceine & Hodgens, Monongahela City.
McCutcheon & Greer, Monongahela City.
Stofft & Co., Pike Run Post Office.
E. C. Forlong, Pike Run Post Office.
Leadbeter & Walton, Pike Run Post Office.
J. P. Coursin, Pike Run Post Office.
Greenhalgth & Stockdale, Monongahela City.
Forsyth & Bigley, Pike Run Post Office.
John Forsyth, Pike Run Post Office.

Fayette County.

Frick & Co., Broadford.
T. W. Watt & Co., Dunbar.
Laughlin & Co., Broadford.

Cocklin & Strickler, Broadford.
Frazer & Fry, Fayette City.
J. W. Clark, Bellevernon.
John Cunningham, Brownsville.
Brown & Cochran, Dawson station.
Cochran & Keester, Dawson station.
Hurst, Moor & Co., Broadford.
Jacobs & Bortner, Fayette City.
Clark & McAleer, Bellevernon.
Lawison & Staufft, Scottdale.
James Rutherford, Fayette City.
Turnbull & Hall, Fayette City.
Sterling Bros., Fayette City.
S. M. & W. F. Speer, Bellevernon.
Leonard & Co., Brownsville.
Pittsburgh and Connellsville Gas Coal Company, Connellsvile.
Connellsville Coal Company.
John M. Cochran & Co., Broadford.
Stoft & Somison, Scottdale.
Playford, Boyle & Wilson, Uniontown.
Daniels & Bortener, Fayette City.
Fayette Coal Company, Connellsville.
Henderson, Watt & Co., Dunbar.
Thomas Watt & Co., Dunbar.
Ewing, Boyd & Co., Uniontown.
Watt, Reed & Co., Dunbar.
Paul Brown & Co., Dunbar.
Dunbar Furnace Company, Dunbar.
J. M. Fergueson, Dunbar.
Hoggsett, Watt & Co., Dunbar.
Lemont Furnace Company, Uniontown.
W. E. Frost, Uniontown.
R. Stoner & Co., Stonerville.
Jackson Mines Company, Dawson station.

Somerset County.

Keystone Coal and Manufacturing Company, Keystone Junction.
Cumberland and Elk Lick Coal Company, Myersdale.
Thomas S. Williams, Myersdale.
Buffalo Creek Coal Company, Garret station.
Thomas Rees & Co., Berlin.
Samuel Adams, Berlin.

Bedford County.

Sandy Run Coal Company, Hopewell.
Kimble Coal and Iron Company, Riddlesburg.
R. Wilson, Riddiesburg.
R. B. Wigton, Coaldale, Riddlesburg.
William Scott, North Point.
C. Machd, North Point.

SECOND DISTRICT.---J. J. Davis, Inspector.

To the Hon. WILLIAM MCCANDLESS,
Secretary of Internal Affairs:

SIR: Having been appointed Mine Inspector for the Second District of the Bituminous Coal Mines, by his Excellency John F. Hartranft, Governor of the Commonwealth of Pennsylvania, in conformity with the provisions of an act of the Assembly, entitled "An act providing the means for securing the health and safety of persons employed in the bituminous coal mines of Pennsylvania."

The Second district, to which I have been appointed, comprises the following counties, viz: Beaver, Lawrence, Mercer, Crawford, Erie, Warren, Forrest, Venango, Clarion, Jefferson, Indiana, Armstrong, Butler, and part of Allegheny.

It is the duty of the inspector to report to your office the condition in which he finds the mines, the number of men employed in and about the mines, &c. I found, in visiting the mines in the Second district, that I had much traveling to do, the mines being far apart. Since my appointment, I have visited mines in ten counties. I found, as a general thing, a disposition among the operators to comply with the requirements of the law; but, in some instances, I noticed a desire to evade the law by claiming that their mines did not come under its provisions; that their mines did not "generate noxious gases," and that their mines were well ventilated, and in good and healthy condition.

On my visit to these mines, I found at the head of the workings, where men were at work, that the air was at a stand-still, without the least perceptible move to be noticed, with clouds of smoke rising from the flames of the lamps and the explosion of powder in blasting.

J. J. Atkinson, in his work on the "Gases met with in coal mines," says: "That a variety of gases is given off by the coal, and other minerals met with in coal mines; a further supply of gases arises from the breathing of men and animals, and from the burning of candles and lamps, as well as from the explosion of the powder used for blasting the coal and stone in the mine." He further says, in another part of the same work: "Now, since fire-damp, choke-damp, and other gases are met with, in more or less abundance, in *all* coal mines, it becomes an important question as to how the bad, and often fatal effects they are likely to produce, if not properly dealt with, may best be avoided." He says further: "So far, however, the best mode of dealing with them appears to be, to dilute them with very large quantities of fresh air, and to sweep them out of the mine by an energetic ventilation, as fast as they are given off or generated."

I think that it would be well for the parties that claim that their mines are clear of "noxious and dangerous gases," to read the above work, and to study the nature and composition of the gases met with in coal mines; also, the injurious effects produced upon those that are compelled to labor, and remain day after day breathing the polluted, air that they term pure, fresh, and not mixed with noxious gases.

The very appearance of the miners testifies, beyond controversy, whether the air they breathe is fit for respiration or not.

J. K. Blackwell, in a report on matters affecting the lives and health of miners, says: "There is another class of injuries, resulting from defective ventilation, to which miners are exposed. The circumstances producing these injuries are slow in operation, and as their effects bring disease, and not immediate and sudden death, their existence has been little considered. A careful examination of the state of mines, leads to the conclusion that the ultimate loss of life is greater from this cause, than even from explosions.

"These effects are the results of an inadequate supply of air, which has become vitiated, and unfit for breathing, on account of its having lost its due proportion of oxygen, which is replaced by the formation of carbonic acid. This gas has its sources from respiration, the lights of the mines, the decomposition of small coal in the *goafs, and of timber in the workings.

"Air in this state is also usually found to be loaded with carbureted hydrogen, yielded from the whole coal, or in the *goafs. Sulphureted hydrogen, arising from the decomposition of pyrites, is sometimes present, especially in coal seams liable to spontaneous ignition. The gases formed by blasting, are also allowed to load the air of mines to a very injurious degree.

"This state of the atmosphere of mines arises from the want of the necessary airways, and other arrangements to discharge such portions of the air in circulation as may have acquired this condition, and to afford a fresh and pure supply at any part of the workings.

"Those districts and seams of coal least affected by inflammable gas, are generally those in which the ventilation is allowed to be in this imperfect and injurious state, on account of attention not having been called so imperiously to the subject, as it is by the violent catastrophes resulting from explosions.

"Asthmatic diseases, at an early period of life, are the unfailing results of ventilation, which is deficient in quantity."

In works of the above description visited, I have tried to show, in addition to the above injuries resulting from the unhealthy condition of the mine, the beneficial results that both the miner and operator would reap from complying with the provisions of the law, and furnish sufficient quantity of pure, fresh air. The miner, instead of having to leave his work before the one fourth of his day's labor is done, on account of bad and foul air, could go on with his work, and furnish his part of the day's product of coal. The operator could get the amount of coal expected, in place of having to pay for auxiliary labor that was not performed, on account of not having the coal to handle, for the reason that some of the miners were compelled to leave their work for want of air.

The condition of many of the mines in this district, as regards ventilation and drainage, are undergoing improvements. Many of the mines have been badly drained. In some instances, the mine openings have not been properly located. Large expenditures, without much benefit, have been the result. This subject should have had more of the attention of mine superintendents and operators.

In many of the mines, necessity has compelled the adoption of steam pumps for the purpose of drainage. The proper place to locate pumps is also a question of importance. In several of the mines visited I found syphon pipes used, where the elevation was not too great, and where there was sufficient supply of water in the sump to keep constant stream.

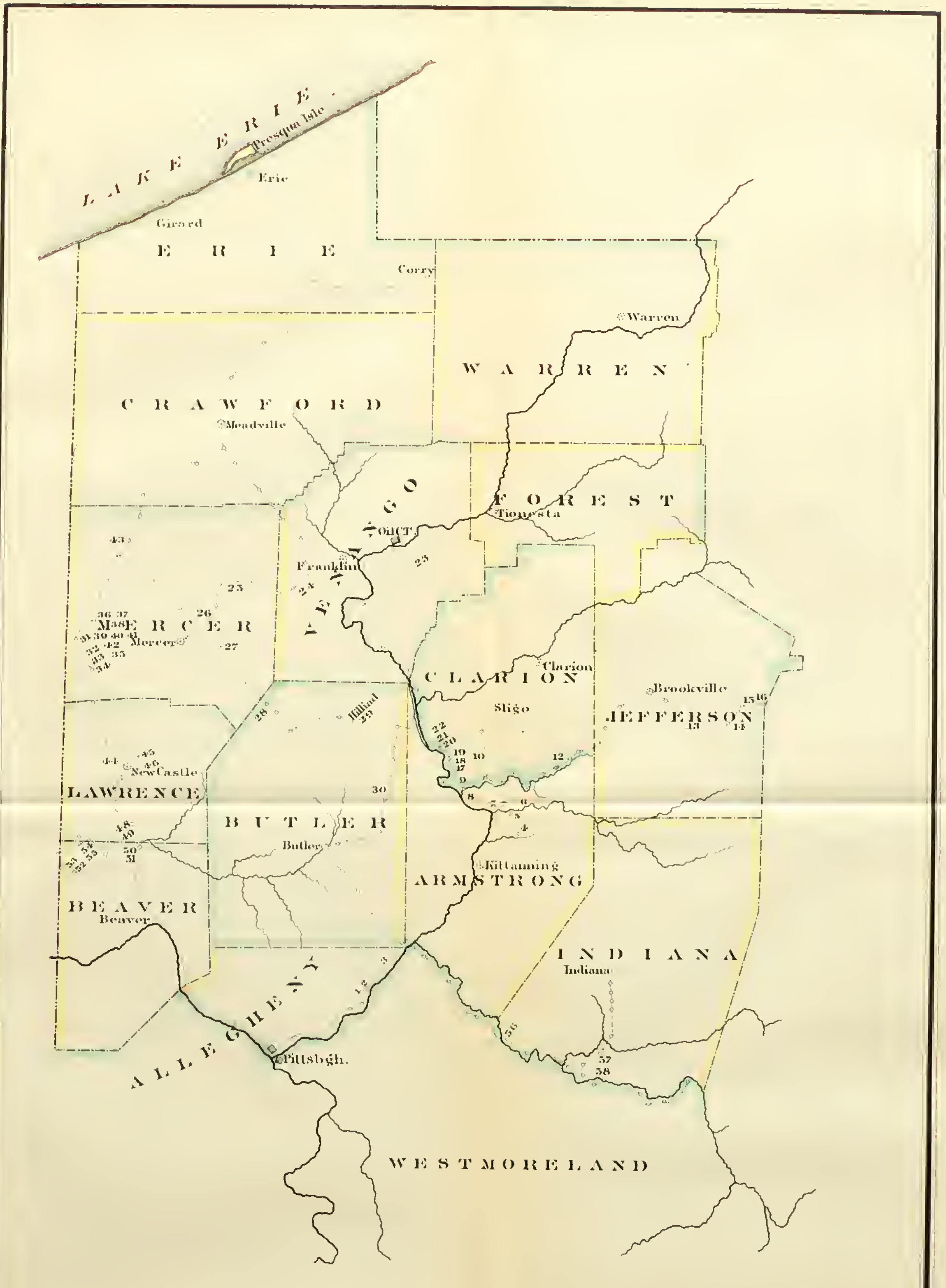
After the drainage is established it requires watching, that no interruption takes place, and that the water courses are kept clean, the mud and slush prevented from stopping its flow.

Most of the mines have the requisite number of openings, but in some the condition of the main roads and traveling ways were in a miserable state. In some cases I have suggested new traveling ways to be made, under the conviction that it would be cheaper and cost less to make new openings than to repair the old ways, so that they would be fit for traveling, and also that it would shorten the distance for ingress and egress. Some of the mines are well provided with traveling ways. Some shafts have good and convenient stairways, and some of the drifts and slopes have safe and dry traveling ways. The main roadways of mines are worthy of the attention of the operator, because, in addition to the loss sustained by himself and the miner, by the loaded cars breaking, losing the coal, the interruption often caused by cars being thrown off the track often causing a delay in the whole workings of the mine, is considerable.

---

*"*Goaf.*"—That part of a mine from which the mineral has been partially or wholly removed—the waste.

Nº 2



A MAP
OF THE
SECOND BITUMINOUS COAL DISTRICT
OF
PENNSYLVANIA.

The small figures show the location of the Mines

Mines Nos		1,2 & 3	in Allegheny County Pa		
"	"	4,5 6,7, 8 & 11	" Armstrong	"	"
"	"	9, 10, 12 17,18,19 20, 21 & 22	" Clarion	"	"
"	"	13,14, 15 & 16	" Jefferson	"	"
"	"	23, & 24	" Venango	"	"
"	"	25, 26, 27, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42 & 43	" Mercer	"	"
"	"	28, 29 & 30.	" Butler	"	"
"	"	44, 45, 46, 47 48 & 49.	" Lawrence	"	"
"	"	50, 51, 52, 53, 54 & 55.	" Beaver	"	"
"	"	56 57 & 58	" Indiana	"	"

J.J. Davis, Mine Inspector

The superintendent, or running boss, should, in ordering timber, instruct the party making and delivering, that the different lengths and sizes are to be made, hauled, and delivered in separate piles, and placed in a convenient place at the opening of the mine, where they could be reached and taken into the working places of the mines. By proper attention to this matter, many a personal injury and loss of life may have been avoided, and many a ton of coal now buried would have been taken out. It is a source of profit to the mine owner to get all the coal possible out, after the heavy outlay in the openings, &c. How many a good piece of coal has been lost for want of timely and proper timbering of the approaches!

Ventilation is produced in many of the mines by furnaces, in others by exhausted steam and natural means. I found at the inlet and outlet of many of the mines more air than the law required, but near the head of the workings, where it was the most needed, the quantity was not sufficient. In some instances the furnace would be entirely too small to overcome the friction the air meets in its passage through the workings, the airways too small and contracted, the air allowed to scatter into the old abandoned parts of the workings, thereby retarded in its progress, and become foul. I found in some works that the furnaces were too much neglected, the fire not stirred up early enough in the morning, not kept up as it should be through the day, and allowed to be slacked too soon in the evening. I have strictly ordered the attention of the mining bosses to this matter. I have in some mines ordered new air-shafts to be put down, and larger furnaces built, and in all mines, to stop the leakages of air into old workings, and to convey it as direct as possible around the working faces, so as to afford the benefit of as much and as pure air as possible to those places where the men are at work.

In regard to maps, some of the mining companies have maps from nearly the commencement of their mines, and fully appreciate their value. Would not be without them for any consideration, law or no law. They have the whole mining property marked; also, the progress made in mining each year, shown by different colors, thus enabling them to see at a glance what coal they have mined, where they are now working, and what remains for future operations within the boundaries of the territory.

I have met few mine owners that did not seem to think the subject of much importance, but working on without knowing what they had done, now doing, nor what remained ahead of their workings. To this class I think the law will be beneficial.

I am happy in being able to state that since my appointment there has not been a fatal accident in the mines of this district, and, also, only the few reported in my former monthly reports of personal injury.

With the hope that by the time of my next report, that I shall be able to report many improvements in the mines of this district, I remain,

Yours truly,

J. J. DAVIS,
Inspector of Second District.

Brady's Bend, Pa., *December 31, 1877.*

TABLE, *showing name of colliery, name of operator, location of mine, and number of men employed.*

NAME OF MINE.	NAME OF OPERATOR.	LOCATION OF MINE.	Shafts.	Slopes.	Drifts.	Number of engines.	Number of boilers.	Number of pumps.	Number of miners—men.	Number of miners—boys.	No. of other persons employed.	Total number employed.
1. Maple Grove,	S. P. McCalmont,	Raymilton, Venango county,			1				17	2	5	24
2. Clinton Mine,	Clinton Coal Company,	Clinton Station, Pitts'bgh and Erie R. R., Lawrence county,			1				35	6	14	55
3. Catfish Mines,	P'b'gh Coal and Mining Co.,	Catfish, Clarion county,			2				51	14	9	74
4. Lower Hillville,	P'b'gh Coal and Mining Co.,	Lower Hillville, Clarion county,			1				40	2	4	46
5. Stoneboro' Mines,	Mercer Iron and Coal Co.,	Stoneboro', Mercer county,		1		1		1	120	21	37	178
6. Welsh Bank,	Wampum Coal Company,	Near Wampum, Lawrence county,			1				86	3	13	102
7. Mahoning Furnace Mine,	J. A. Colwell & Co.,	In Armstrong county,			1				23	2	1	26
8. Tod Coal Mine,	G. P. Sanborn,	Enon Valley, Beaver county,			1			1	20	2	4	26
9. Bethel, No. 1,	E. A. Wheeler & Co.,	Mercer county,	1			1	1	1	75	22	15	112
10. Bethel, No. 2,	E. A. Wheeler & Co.,	Sampleton, Mercer county,	1			1	3	2	50	16	5	71
11. Pacific Slope,	Dunham, Roberts & Co.,	Near Sharon, Mercer county,		1		1	2	3	41	12	19	72
12. Fairmount Mines,	Fairmount Coal Company,	New Bethlehem, Clarion county,			1				90	5	25	120
13. Ætna and Vesuvius,	Spang & Chalfant & Lewis & Dalzel,	Hite Station, Allegheny county,			4				28		7	35
14. Penn'a Salt Manufact'ng Co.,	Penn'a Salt Manufact'ng Co.,	Natrona, Allegheny county,			1	1	1	1	39	10	15	64
15. McElhenny Mine,	Tiel & McDowell,	Franklin, Venango county,			1				13		3	16
16. Red Bank Furnace Mine,	Reynolds & Morehead,	Red Bank, Clarion county,			1				30	22	19	71
17. Karns City Coal Mine,	H. R. Fullerton,	Karns City, Butler county,			1				15			15
18. Washington Coal Mine,	F. Williams,	Washington Station, Jefferson co.,			1				25	3	4	32
19. Sligo Branch Coal Mine,	Sligo Branch Coal Company,	Reemersburg, Clarion county,			1				16	1	8	25
20. Bellview Coal Mine,	P. Y. Hite,	Hite Station, Allegheny county,			1	1	1	1	64	11	8	83
21. Jackson Coal Mine,	Jackson Coal Company,	Jackson Centre, Mercer county,			1				25	8	5	38

22. Beaver Coal Mine,	Lee & Patterson,	Clinton, Lawrence county,	. .	. .	1	. .	. .	. .	93	11	27	131
23. Oakland, No. 1,	Pierce & Scott,	Oakland, Mercer county,	1	. .	1	1	4	3	24	. .	7	31
24. Oakland, No. 2,	Pierce & Frampton,	Oakland, Mercer county,	1	. .	. .	1	4	2	68	5	12	85
25. Mahoning Coal Mines,	Mahoning Coal Company,	Mahoning, Armstrong county,	. .	. .	1	. .	. .	.	37	7	16	54
26. Pancoast Mines,	Heim, Goodwill & Co.,	Pancoast Station, Jefferson county,	. .	. .	1	. .	. .	. .	24	3	2	29
27. Pardoe Mines,	Mercer Mining and Manufacturing Company,	Pardoe Station, Mercer county,	. .	. .	1	. .	. .	. .	90	15	40	145
28. Barnes Mines,	Mercer Mining and Manufacturing Company,	Harrisville Station, Butler county,	. .	. .	1	1	1	1	82	20	20	122
29. Rocky Bend,	John F. Moulton & Co.,	Fuller Station, Jefferson county.	. .	. .	1	. .	. .	. .	40	. .	10	50
30. Stewardson Furnace Mines,	F. B. & A. Laughlin,	Stewardson Furn., Armstrong co.,	. .	. .	1	. .	. .	. .	16	7	12	35
31. Reimerton Coal Mines,	E. J. Bowen,	Reimerton Station, Armstrong co.,	. .	. .	1	. .	. .	. .	21	1	3	25
32. Home Bank,	Buhl & Westerman,	Near Sharon, Mercer county,	1	. .	. .	1	5	2	80	25	22	127
33. Pine Creek Mine,	Brown & Mosgrove,	Pine Creek Furn., Armstrong co.,	. .	. .	1	. .	. .	. .	23	4	. .	27
34. Hickory Mines,	Spearman, Upp & Co.,	Hickory township, Mercer county,	1	. .	. .	1	3	3	38	8	16	62
35. Orangeville Mines,	Morris Coal Company,	W. Salem township, Mercer co.,	1	. .	. .	2	1	1	30	10	13	53
36. Davidson Mines,	Davidson, Green & Co.,	Wampum, Lawrence county,	. .	. .	1	. .	. .	. .	15	4	3	22
37. Keel Ridge,	Filer & Co.,	Mercer county,	1	. .	. .	1	3	3	40	7	16	63
38. Burnnet,	A. Burnnet,	Burnnet Station, Butler county,	. .	. .	1	. .	. .	. .	37	3	4	44
39. Monterey,	J. McCollum,	West Monterey, Clarion county,	. .	. .	1	. .	. .	. .	18	3	6	27
40. Mineral Ridge,	Mineral Ridge Coal Co.,	West Monterey, Clarion county,	. .	. .	1	. .	. .	. .	51	10	12	73

There are several of the mines in this district idle at present.

MINES SITUATED ON THE ALLEGHENY RIVER.

Etna and Vesuvius Coal Mines.

Operated by Spang, Chalfant & Co., and Lewis Dalzell & Co. Located on the West Penn R. R., Allegheny county, near Hite station. Drift opening. Ventilation produced by furnace; size, eleven feet by five feet. Drainage fair. Employ about forty persons. Carbureted hydrogen gas generated in this mine. Thickness of seam, from six to seven feet. Mining superintendent, Hugh Wood.

Bellvue Mine.

Located near Hite station, West Penn R. R. Drift opening operated by P. Y. Hite. Mining boss, J. M. Watt. Coal about seven feet in thickness, undulating, and on heights troubled with fire damp. Ventilation produced by exhausted steam. On the 16th day of November last, one of the entries in this mine took fire, ignited by blast the previous night, and gained such headway before discovered, that operations in that part of the mine were abandoned for a time. Mr. Watt immediately went to work building a wall of wood and sand six feet thick in each of the approaches, and blew in steam for eight hours, and by this means conquered the fire.

Natrona Mine.

Operated by the Penna. Salt Manufacturing Co., at Natrona, on the West Penn R. R., Allegheny county. In operation since 1851. Employ about fifty-eight persons. Drainage good, produced by steam pump. When I visited this mine, I made suggestions to have the air confined to a proper channel, as it was very much scattered at the time. W. A. Richards is the general manager, and R. G. Boyd mining boss. This mine, at times, generates fire damp.

Pine Creek Furnace Coal Mine.

Located at Pine Creek Furnace, about five miles from Pine Creek station, A. V. R. R., and connected with same by narrow gauge railroad. Operated by Brown & Mosgrove. Mr. Murphy, mining boss. Employ from twenty-five to thirty persons. Mines dry, and roads laid with T rail. When visited, air inadequate; outlet partly filled with debris; improvements ordered.

Stewardson Furnace Coal Mine.

Situated about two miles from Mahoning station, A. V. R. R., in Armstrong county. Operated by F. B. & A. Laughlin, and worked about twenty-one years. Employ about thirty-five or forty persons. Ventilation good, with the exception of one entry. Drainage by a syphon. Roof good. General manager, A. Laughlin, and D. Bingman, mining boss.

Mahoning Furnace Coal Mine.

This mine is situated on Mahoning creek, about five miles above Stewardson Furnace. Operated by J. A. Colwell & Co. General manager, H. Colwell; pit boss, Michael Anthony. Mine in operation about twelve or thirteen years. The roof in this mine is excellent, the workings dry. Drip openings.

Mahoning Mines.

Operated by the Mahoning Coal Co. Located at Mahoning station, A. V. R. R. Jas. B. Stephenson, superintendent, and James Ashman, mining boss. Employ fifty-eight persons at mine and tipple. When visited, a new air-way was about being completed to lead the air to head of workings. The coal from this mine goes to Buffalo, N. Y., and is excellent for generating steam.

Reimerton Coal Mines.

Located at Reimerton station, A. V. R. R. Operated by E. J. Brown. Not long in operation. Same vein as that mined at Mahoning station. Employ about twenty-five persons.

Red Bank Furnace Coal Mines.

Located near Red Bank junction, A. V. R. R. Operated by Reynolds & Morehead. David Reynolds, general manager; Thomas Simpson, mining boss. Mines in operation about fifteen years. Coal from three and a half to four feet thick. Employ about seventy persons. Mine about two thousand tons per month. Coal used for coke.

Catfish Coal Mines.

Mines situated in Clarion county, at Catfish station, A. V. R. R. Operated by the Pittsburgh Coal and Mining Co. W. D. Mullen, president, and Thomas Mitchell, mine boss. These mines ship about two thousand five hundred tons per month, and employ seventy-four persons. These mines have been in operation five years.

Lower Hillville Coal Mines.

Situated at Hillville station, A. V. R. R., Clarion county. Operated by the Pittsburgh Coal and Mining Co. Mining boss, Thomas Mitchell. Mined in December, 1877, one thousand three hundred tons. Employ forty-six persons.

Upper Hillville Coal Mines.

Located at Upper Hillville station, A. V. R. R., Clarion county. Operations suspended.

Mineral Ridge Coal Mine.

Situated one mile below West Monterey station, A. V. R. R., Clarion county. Operated by F. J. Skidmore. F. E. Cooke, general manager, and C. W. H. Eicke, mine superintendent. Mined in December, 1877, three thousand five hundred tons. Employ seventy-three persons. Ventilation by furnace; size, five feetby eight feet; size of arch, five and a half feet by eleven feet. Shaft, fifty feet.

Monterey Coal Mine.

Operated by J. McCollum. George Horner, mine superintendent. This mine is located one and one half miles above West Monterey, A. V. R. R., Clarion county. Employ twenty-seven persons at present; not working strong.

Cranberry Coal Mine.

Located in Venango county, about six miles east of South Oil City. Operated by James Kennedy, and employ thirty-two persons. Ventilated by furnace, which is not of sufficient size at present. A new air-shaft to be put down and new furnace built, which, when completed, with some other improvements, will give sufficient supply of air. Drainage at present poor. Improvement suggested.

MINES SITUATED ON THE LOW GRADE DIVISION OF THE ALLEGHENY VALLEY RAILROAD.

Sligo Branch Coal Mine.

Located about three miles north of Sligo Junction station, on the Sligo Branch railroad, Clarion county. Operated by Sligo Branch Coal Company, limited. Samuel Coon, superintendent of mine. Employ twenty-five persons. Coal, bituminous. Drainage not good at time of visit. Ventilation poor, but improvements in progress.

Bostonia Coal Mine.

Located about two miles east from New Bethlehem, and about same distance from Bostonia Junction, L. G. Division of the Allegheny Valley railroad, Armstrong county, Operated by the Red Bank Coal and Mining Company. This mine has been idle for some time past.

Fairmount Coal Mines.

Operated by the Fairmount Coal Company. J. M. Brinker, superintendent, and Roll Henry, mining boss. Employ one hundred and twenty persons. Coal mined in December month, four thousand and sixty-five tons. The seam is from four feet to seven feet thick. The top is not good; I consider it dangerous.

Rocky Bend Mine.

On the L. G. Division of the Allegheny Valley railroad, near Fuller station, Jefferson county. Operated by John F. Moulton & Co. John McClain, mine superintendent. Employ about fifty persons. Mined December, two thousand and thirty-seven tons coal. Drainage good; effected by syphon pipe. Ventilated by a furnace.

Diamond Coal Mine.

Located near Reynoldsville, Jefferson county, on the L. G. Division. Operated by Goodwill & Heim. John Goodwill, superintendent and mining boss. This mine suspended operations in July, 1877.

Pancoast Coal Works.

At Pancoast station, L. G. Division, in Jefferson county. Operators, Heim, Goodwill & Co. Outside manager, J. C. Baker. Inside superintendent, Henry Williams. Employ thirty-four persons. Mined in December, one thousand six hundred and eight tons coal. Capacity, two hundred tons per day.

Washington Coal Mine.

Located about one mile from Pancoast station, L. G. Division, Jefferson county. Operated by F. Williams; and, like all others in this section, is drift opening. John Little, mining superintendent. Employ thirty-two persons. Mined in December month, one thousand three hundred tons. Roadways, inside and outside, in bad condition. The present manager took charge only a short time previous to my visiting the work. Improvements in ventilation projected.

MINES ON THE INDIANA BRANCH RAILROAD.

Turner Mine.

Operated by J. M. Turner, at present time. Number of persons employed, reduced to five. Thickness of coal, six feet.

Smith Mine,

Near the above works, employ only six men.

MINES NEAR THE PITTSBURGH, FORT WAYNE AND CHICAGO R. R.

Moss Cannel Coal Mine,

Near Darlington, Beaver county. Operator, J. F. Mansfield. Ventilated by furnace, which is entirely too small to overcome the friction in air-ways. I recommended a fan to assist the furnace. These mines are dry.

Mansfield McIntosh Mine,

Near Moss mine. At time of my visit, did not employ over eight persons.

Sterling Coal Mine,

In same district, was not in operation when visited.

Tod Coal Mine,

Near the P., F. W. and C. R. R. in Beaver county. G. P. Sanborn, superintendent and operator. Clark, mining boss. The mine was being repaired when I was there; but since has been put in operation, and shipped, December month, four hundred tons coal—employing twenty-six persons. Coal, bituminous.

Beaver Coal Mine,

On the Pittsburgh and Erie railroad, near Clinton station. Lee & Patterson, operators. W. W. Hamilton, superintendent; Benjamin James, mine boss. Employ one hundred and twenty-one persons. Mined in December, four thousand three hundred and sixty-seven tons. Ventilated by a furnace. Improvements needed in ventilation and roadways.

Clinton Coal Mine.

Located on line of Pittsburgh and Erie R. R., near Clinton station. Operated by the Clinton Coal Company. Charles Harmony, general manager. Mining boss, John

Craig. Employ fifty-five persons. Mined in December month, one thousand three hundred and eighty tons. Drift opening. Ventilation by a furnace. Roadways muddy; but I expect much improvement by the time I make next visit.

Welsh Mine,

On the P. and E. R. R., and operated by the Wampum Coal Company. Mine in operation since 1870. Superintendent, John McCleery; mining boss, Thomas Hurst. Ventilated by a furnace. Employ one hundred and two persons. Mined in December month, two thousand two hundred and forty-five tons coal. This mine is a drift opening.

Davidson Mine,

On the P. and E. R. R., in Lawrence county, near Wampum. Operated by Davidson, Green & Co. Employed in October, ninety-one persons. Ventilated by a furnace; and when there, in October, I found the air, at head of workings, inadequate.

Wallace Coal Mine,

Near New Castle, Lawrence county. Sharpless & Kincaid, operators. Shaft opening, twenty-four feet deep. Employed, when I was there, eighteen person; since reduced to less than ten. M. C. Sharpless, superintendent, and F. Kincaid, mining boss. I requested to have stairs put in shaft of travel-way, for ingress and egress; also, a man way, at the bottom of hoisting shaft, and ordered that the men be stopped from passing up and down on the cages.

Pierson & Bell Mine.

Not in operation when I was there. This mine is near New Castle. When there, the superstructure at shaft had burned down.

SHARON MINES.

Home Mine Shaft.

Opening, one hundred and fifty-five feet deep. Operated by Buhl, Westerman & Co. Manager, F. Buhl. Mining boss, W. E. Williams. One fifty horse power engine used for hoisting. Two steam pumps, Cameron & Cooper, No. 6, each five boilers. This mine in good order. Roads dry. A substantial stairway for travel through shaft, with convenient landings, &c. Ventilation by a furnace.

Oakland, No. 1.

Located about one mile from the Home Mine. Shaft opening, one hundred and thirty-three feet deep; size, eight feet by fourteen feet. Operated by Pierce & Scott. Employed in October, twenty-nine persons. The workings of this mine are pillars, and the operators expect to abandon the place in the spring. The superintendent is Walter Pierce. Mining boss, Robert Oaks. Ventilated by the exhaust of steam.

Oakland Shaft, No. 2,

Near Oakland, No. 1, and operated by Pierce & Frampton. This mine had been idle for four years previous to my visiting it, and they were clearing out workings when I was there. They report, for December, total number persons employed, eighty-five. Coal mined in said month, two thousand two hundred tons. When I was there, everything was undergoing repairs, and ventilation arrangements were not working, or in order. Under same management as Oakland, No. 1.

Keel Ridge, No. 3.

Located near Keel Ridge. Operated by Filer & Co. Shaft opening, one hundred and thirty-two feet deep. General manager, Enoch Filer. Mine in bad condition. Employed in October sixty-three persons, and mined two thousand five hundred tons coal. J. H. Young, mining boss, informed me, at the time of my visit, that he expected the mines would be exhausted by 1st of February, 1878.

Kimberly, Filer & Co. Shaft,

Worked out and finished on the 11th September, 1877.

Snyder Coal Company.

Also finished. Coal exhausted.

Neshannock Coal Mines,

Near Neshannock, in Mercer county. Operated by J. Phillips & Co. Employed about sixty-five persons when visited. Manager, J. Phillips. Mine boss, A. McIntyre. Drainage bad. Coal nearly worked out. Expected to visit in three months at the time of visit.

Hickory Mines.

Located in Hickory township, Mercer county. Shaft openings, depth one hundred and five feet. Employed at time of visit, between thirty-five and forty persons. The most of the workings, at time of visit, were prospecting in rock for coal, which caused heavy expense to the company, and very little coal. Manager, J. J. Spearman; mining boss, James Beveridge. I ordered stairs for a traveling-way to be put in one of the shafts; also, improvements in roadways ordered. Mining boss favorable to improvements.

Bethel Shaft, No. 2,

Near Sampletown, Mercer county. Operated by E. A. Wheeler, Curtis & Boyce. Depth of shaft, fifty-two feet. Traveling-way through a slope, one hundred and twenty-five feet long. Manager, E. A. Wheeler; mine boss, A. Harding. Employed seventy persons, at time of visit. Ventilation by exhaust steam. Drainage middling. This shaft is in close proximity to old workings, supposed to be flooded. I, therefore, gave strict orders to mining boss, that in case they worked in direction of said old works, to keep bore holes, in conformity with the requirements of the law, in advance of the workings.

Bethel Shaft, No. 1.

About one mile from Bethel, No. 2. Operated by same company, and under same managers. Depth main shaft, eighty-five feet. Travel-way for men through a slope.

Employed one hundred and twenty-two persons at the time of visit. There is considerable water in this mine, and in some places the roads flooded. The mines have been worked heretofore very extensively; and drainage difficult. Ventilation by furnace. Mined in December, two thousand two hundred and eighty tons. And on account of the distance of slope from head of workings, I suggested a stairway to be put up in one of the shafts, for the convenience of men working near head of workings.

Pacific Slope,

Near Sharon, Mercer county. Operated by Dunham, Roberts & Co. Consists of a slope. Opening about three hundred feet long. W. B. Dunham is general manager and mining boss. Ventilation produced by a furnace. Employed in December, seventy-two persons. Total production in December, one thousand six hundred and sixty-five tons. Drainage same as all other mines in this section—by steam pumps. Ordered at time of visit a new shaft for traveling-way, which, by this time, is completed. Have also completed a map of mine, as I am in receipt of trace of same

Orangeville Shaft.

Located in West Salem township, Mercer county, about five miles west of Greenville. Operated by Morris Coal Company. Depth of shaft, eighty feet. George Frick, superintendent. Mining boss, John Roper. I ordered at time of visit to have the air confined to the proper channels, it being much scattered; and to stop the men passing up and down on the cages through the hoisting shaft, and stairs to be built in shaft for egress and ingresss. Employed when I was there, about fifty persons. At time of my visit, the superintendent was absent, and mining boss sick. Mine not in favorable condition. Suggestions made for improvements.

MINES IN THE VICINITY OF SHENANGO AND ALLEGHENY RAILROAD.

Burnett's Mine.

Located at Burnett Station, in Butler county. Drift opening. Operated by Andrew Burnett. In operation about two years. Employ forty-four persons. The arrangements for ventilating this mine were not completed when I visited the work, and I gave instructions which I considered necessary for completing the same. Drainage middling.

Barnes Mine,

At Harrisville Station, Butler county. Drift opening. Operated by the Mercer Mining and Manufacturing Company. F. H. Oliphant, superintendent. Mine boss, Wm. Jenkins. Employ one hundred and forty-five persons. This mine is very muddy. The covering is light, which admits the surface waters when a fracture occurs in top. The floor is fire-clay. Mined November, four thousand two hundred tons. Works in operation five years. Ventilation effected by fire in basket suspended in shaft.

Pardoe Mines,

At Pardoe Station, Mercer county. Operators, same as those operating the Barnes. F. H. Oliphant, superintendent. Mining boss, J. S. Humphrees. Coal undulating, and mine extremely wet in the entries and main roads. It requires great expense to keep workings dry. Ventilated by a furnace. Employ two hundred persons. Mined in November, five thousand seven hundred tons.

Jackson Center Mines,

Near Jackson Center, Mercer county. Operated by Jackson Coal Company. Kerr, superintendent; Nathan Bole, mining boss. Employ thirty-eight persons. Mined in December, seven hundred and forty-seven tons coal. Works new and not worked to a great extent. Air-ways not completed when I was there.

Stoneboro' Mines,

At Stoneboro', Mercer county. Operated by the Mercer Iron and Coal Company. Benjamin Esgar, superintendent and mining boss. Slope opening, one thousand eight hundred feet long; grade, twenty-two inches to one hundred feet. I found carbonic acid gas in this mine in considerable quantities. Employ one hundred and seventy-eight persons. Production in December, four thousand six hundred and sixty-nine tons coal. Mined in the year ending December 31, 1877, thirty-seven thousand seven hundred and thirty-four tons. Ventilated by two furnaces. The roof in this mine is very dangerous—soapstone and slate. Bottom fire-clay. I ordered a travel-way for men, which I considered very necessary. Improvements necessary in drainage.

Maple Grove Mine,

Near Raymilton, Venango county. Operated by S. P. McCalmont. Superintendent and mining boss, Chas. A. Kinney. Drift opening. Heretofore worked extensively; not doing much at present. Employ twenty-four persons. Mined in December, two hundred and eighty tons. Mined in the year 1877, five thousand five hundred and eleven tons coal. Drainage good. Ventilation in some entries not sufficient. Preparations in progress to remedy this.

Karns City Coal Mine,

Situated near Karns City, Butler county. Operated by H. R. Fullerton. William Penberthy, minidg boss. Employ fourteen persons. Mined in December, fourteen thousand bushels. Mine dry.

McElheny Mine,

Near Franklin, Venango county. Operated by Tiel & McDowell. Employ sixteen persons. Mined from February 1, 1877, to January 1, 1878, five thousand six hundred and thirty-seven tons.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the vania, for the month*

NAME OF COLLIERY.	NAME OF OPERATOR.	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS.	Slope, Shaft or Drift.	Pumps—how many.	Number of engines.	Horse power.
1	2	3	4	5	6	7
Keel Ridge,	Filer & Co.,	Bituminous, block,	Shaft,	3	1	50
Oakland, No. 1,	Pierce & Scott.,	Bituminous, block,	Shaft,	3	1	. . .
Oakland, No. 2,	Pierce & Frampton,	Bituminous, block,	Shaft,	1	1	. . .
Wallace Coal Bank,	Sharpless & Kincaid,	Bituminous,	Shaft,	. .	. . .	1
Lee & Patterson Mines,	Lee & Patterson,	Bituminous,	Drift,	. .	. . .	
Pacific Slope,	Dunham, Roberts & Co.,	Bituminous, block,	Slope,	3	1	40
Bellview Coal Mines,	P. Y. Hite,	Bituminous,	Drift,	1	1	10
Natrona Coal Mines,	Penn'a Salt Manufacturing Co.,	Bituminous,	Drift,	1	1	10
Karn City Coal Works,	H. R. Fullerton & Co.,	Bituminous,	Drift,	.	. . .	. . .
Pine Creek Farm Mines,	Brown & Mosgrove,	Bituminous,	Drift,	. .	. .	. . .
Sligo Branch Coal W'ks	Sligo Branch Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Bay, Shoaff, Spears & Co. Mines,	Bay Shoaff,	Bituminous,	Shaft,	1	1	16
Reimerton Coal Works,	E. J. Bowen,	Bituminous,	Drift,	. .	. . .	. . .
Catfish Coal Works,	Pittsburgh Coal and Mining Company,	Bituminous,	Drift,	. .	. . .	. . .
Lower Hillville,	Pittsburgh Coal and Mining Co.,	Bituminous,	Drift,	. .	. . .	. . .
Fairmount Coal Mines,	Fairmount Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Jackson Coal Mines,	Jackson Coal Company,	Bituminous,	Drift,	2	. . .	. . .
Clinton Coal Mines,	Clinton Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Mahoning Coal Mines,	Mahoning Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Bethel Shaft, No. 1,	E. A. Wheeler & Co.,	Bituminous, block,	Shaft,	1	1	30
Bethel Shaft, No. 2,	E. A. Wheeler & Co.,	Bituminous, block,	Shaft,	2	1	35
Mahoning Furnace Coal Works,	J. A. Colwell & Co,	Bituminous,	Drift,	. .	. . .	. . .
Home Bank,	Buhl, Westerman & Co.,	Bituminous, block,	Shaft,	2	1	50
Welsh Bank,	Wampump Coal Company,	Bituminous,	Drift,	. .	. . .	. . .

respective Collieries in the Second Bituminous Mine District of Pennsyl-
of October, 1877.

Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	Ventilation.									
										1st week.		2d week.		3d week.		4th week.	
								Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubit feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10
3	40	7	16	63	5	. .	2,500	1	8½x11	*							
4	20	2	7	29	3	1	1,200	. .	. . . .	*							
2	45	6	8	59	3	. .	900	. .	. . . .	*							
. .	14	4	1	19	. .	. .	†13,353	2	1¾x3 3½x4	. . . .	. . . .	. . . . . .	. . . .	. . . . . .	. . . .	200 245	10,050 15,040
. .	80	12	16	108	7	4	4,265	. .	. . . .	*							
2	39	9	16	64	3	3	2,202	2	7x6	*							
1	38	11	15	64	5	. .	†77,196	3	54	115	5,210	115	5,210	115	5,210	115	5,210
1	36	6	16	58	11	1	. . . .	4	5x5	*							
. .	13	. .	1	14	1	. .	†13,400	2	7½x5½	*							
. .	23	4	. .	27	4	3	†36,000	3	. . . .	*							
. .	50	6	10	66	4	. .	. . . .	2	24 35	*							
1	12	2	1	15	. .	. .	. . . .	. .	. . . .	*							
. .	21	. .	2	23	1	‡1	689⅛	. .	. . . .	*							
. .	60	17	2	79	6	. .	2,735	4	6x3½ 4x3½ 4x4 7x5⅓	100 190 136 70							
. .	30	3	1	34	2	. .	1,428	1	7x5	150							
. .	95	11	11	117	9	1	6,536										
.	20	8	10	38	3	2	1,500	3	6x6	. . . .	. . . .	. . .	. . . .	. .	. . . .	100	
. .	50	10	15	75	6	7	3,599	. .	. . . .	. . . .	. . . .	. . .	. . . .	. . .	. . . .	100	3,850
. .	33	7	13	53	3	1	1,409	2	9x6	. . . .	. . . .	. . .	. . . .	. . .	. . . .	60	3,240
1	75	22	15	112	6	2	2,900	4									
3	50	16	12	78	3	. .	3,000	2									
. .	20	4	. .	24	5	1	2,000										
5	100	30	25	155	7	. .	6,000	2									
. .	78	6	12	96	5	4	3,789	3	6x6								

* Ventilation not reported. † Bushels. ‡ Horse.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.									
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
	Average velocity of air current per month at inlet.	Number of headings.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current per minute at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.
1	11	12	13	14	15	16	17	18	19	20
Keel Ridge,	....	2	....	....	....	....	....	....	....	....
Oakland, No. 1,	....	2	....	....	....	....	....	....	....	....
Oakland, No. 2,	....	4	....	....	....	....	....	....	....	....
Wallace Coal Bank,	....	....	....	....	....	....	....	....	....	....
Lee & Patterson Mines,	....	....	*	....	....	....	....	....	....	....
Pacific Slope,	....	4	†	....	....	....	....	....	....	....
Bellview Coal Mines,	5,210	6	110	4,840	110	4,840	110	4,840	110	4,840
Natrona Coal Mines,	....	5	....	‡	....	....	....	....	....	....
Karn City Coal Works,	....	4	....	‡	....	....	....	....	....	....
Pine Creek Farm Mines,	....	6	....	‡	....	....	....	....	....	....
Sligo Branch Coal Works,	....	3	....	‡	....	....	....	....	....	....
Bay, Shoaf, Spears & Co. Mines,	....	....	....	....	....	....	....	....	....	....
Reimerton Coal Works,	....	2	....	....	....	....	....	....	....	....
Catfish Coal Works,	§124	3	....	‡	....	....	....	....	....	....
Lower Hillville,	§150	3	....	‡	....	....	....	....	....	....
Fairmount Coal Mines,	....	....	....	‡	....	....	....	....	....	....
Jackson Coal Mines,	....	3	....	‡	....	....	....	....	134	....
Clinton Coal Mines,	....	....	....	....	....	....	....	....	90	1,440
Mahoning Coal Mines,	....	1	....	....	....	....	....	....	30	1,620
Bethel Shaft, No. 1,	....	2	....	....	....	....	....	....	....	....
Bethel Shaft, No. 2,	....	....	....	....	....	....	....	....	....	....
Mahoning Furnace Coal Work,	....	....	....	....	....	....	....	....	....	....
Home Bank,	....	1	....	‖	....	....	....	....	....	....
Welsh Bank,	....	....	....	¶	....	....	....	....	....	....

* They claim that the provisions of the act do not apply to their mines.

† Ventilation by furnace 2′ 10″x3′, 11′ long; size of outlet, 5x6.

‡ Natural ventilation.

§ Per minute.

‖ Ventilated by a furnace 4½x6′.

¶ Ventilated by furnace.

Collieries in the Second Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.											REMARKS.
		1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
Average velocity per minute for the month.	Outlet—size of—feet.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Average number of feet passing out per month.	
21	22	23	24	25	26	27	28	29	30	31	
....	5x8½	*	....	....	....	....	....	....	....	....	Mercer county.
....	....	....	....	....	....	....	....	....	....	....	Mercer county.
....	....	....	....	....	....	....	....	....	....	....	Mercer county.
...	3½x8½	....	....	....	....	....	....	110	3,300	...	Lawrence county.
	3¼x4	....	....	....	....	....	....	140	1,820		
....	....	....	....	....	....	....	....	....	....	....	Lawrence county.
....	....	....	....	....	....	....	....	....	....	....	Mercer county.
4,840	57	116	6,612	116	6,612	116	6,612	116	6,612	6,612	Allegheny county.
....	5x5	....	....	....	....	....	....	....	....	....	Allegheny county.
....	5½x4½	....	....	....	....	....	....	....	....	....	Butler county.
....	....	....	....	....	....	....	....	....	....	....	Armstrong county.
...	35	..	....	....	....	....	....	....	....	....	Clarion county.
	19										
....	....	....	....	....	....	....	....	....	....	....	Lawrence county.
....	....	....	....	....	....	....	....	....	....	....	Armstrong county.
...	7x6	55	...	....	....	....	....	....	....	†82	Clarion county.
	7x6	70									
	7x6	120									
...	4x7	150	...	....	....	....	....	....	....	†105	Clarion county.
	6½x7	60									
....	....	....	....	....	....	....	....	....	....	....	Clarion county.
....	5	180	....	....	....	....	....	....	....	....	Mercer county.
....	....	....	....	....	....	....	....	240	7,200	....	Lawrence county.
...	5x5	....	....	....	....	....	....	75	1,875	...	Armstrong county.
	5x5	....	....	....	....	....	....	43	1,075		
....	....	....	....	....	....	....	....	....	....	....	Mercer county.
....	....	....	....	....	....	....	....	....	....	....	Mercer county.
....	....	....	....	....	....	....	....	....	....	....	Armstrong county.
....	....	....	....	....	....	....	....	....	....	....	Mercer county.
....	....	....	....	....	....	....	....	....	....	....	Lawrence county.

* Ventilation produced by exhaust steam. † Per minute.

A STATEMENT *of the names, power, capacity, and ventilation of the*
vania, for the month

NAME OF COLLIERY. 1	NAME OF OPERATOR. 2	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS. 3	Slope, shaft, or drift. 4	Pumps—how many. 5	Number of engines. 6	Horse-power. 7
Natrona Coal Works,	Penn'a Salt Manufacturing Co.,	Bituminous,	Drift,	1	1	40
Etna and Vesuvius,	Spang, Chalphant & Co.,	Bituminous,	Drift,	.	. . .	. . .
Belleview Coal Works,	P. Y. Hite,	Bituminous,	Drift,	1	1	10
Mahoning Coal Works,	Mahoning Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Pine Creek Coal W'ks,	Brown & Mosgrove,	Bituminous,	Drift,	. .	. . .	. . .
Sligo Branch C. W'ks,	Sligo Branch Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Pancost Coal Works,	Reynoldsville Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Rockey Bend C. Works,	J. F. Moulton & Co.,	Bituminous,	Drift,	. .	. . .	. . .
Bethel, Shaft No. 1,	E. A. Wheeler, Curtus & Boyce,	Bituminous, block,	Shaft,	1	1	30
Bethel, Shaft No. 2,	E. A. Wheeler, Curtus & Boyce,	Bituminous, block,	Shaft,	2	1	35
Karns City Coal Works,	R. H. Fullerton,	Bituminous,	Drift,	. .	. . .	. . .
Stewartson Fur. C. W.,	F. B. & A. Laughlin,	Bituminous,	Drift,	. .	. . .	. . .
Washington Coal W'ks,	F. Williams,	Bituminous,	Drift,	. .	. . .	. . .
Hickory Mines,	Spearman, Ulp & Co.,	Bituminous, block,	Shaft,	3	1	20
Stoneboro' Mines,	Mercer Iron and Coal Company,	Bituminous,	Slope,	. .	1	75
Oakland, No. 1,	Pierce & Scott,	Bituminous, block,	Shaft,	3	1	. . .
Oakland, No. 2,	Pierce & Frampton,	Bituminous, block,	Shaft,	1	1	. . .
Catfish Coal Works,	Pitt Coal and Mining Company,	Bituminous,	Drift,	. .	. . .	. . .
Lower Hillville,	Pitt Coal and Mining Company,	Bituminous,	Drift,	. .	. . .	. . .
Clinton Coal Mine,	Clinton Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Beaver Mines,	Lee & Patterson,	Bituminous,	Drift,	. .	. . .	. . .
Pacific Slope,	Dunham, Roberts & Co.,	Bituminous, block,	Slope,	3	1	40
Fairmount Coal Works,	Fairmount Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Home Bank,	Buhl, Westerman & Co.,	Bituminous,	Shaft,	2	1	50
Reimerton Coal Works,	E. J. Bowen,	Bituminous,	Drift,	1	. . .	. . .
Mahoning Fur. C. W.,	J. A. Colwell & Co.,	Bituminous,	Drift,	. .	. . .	. . .
Mineral Ridge Coal W.,	T. J. Skidmore,	Bituminous,	Drift,	. .	. . .	. . .
Monterey Coal Works,	J. McCollum,	Bituminous,	Drift,	. .	. . .	1
Welsh Bank,	Wampum Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Tod Mines,	G. P. Sanborn,	Bituminous,	Drift,	1	. . .	. . .
Jackson Coal mine,	Jackson Coal Company,	Bituminous,	Drift,	1	. . .	. . .

respective collieries in the Second Bituminous Mine District of Pennsyl-
of November, 1877.

Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	VENTILATION.									
										1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
								Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10
1	37	7	16	60	11	1	*7,248										
. .	30	1	10	41	4	. .	*51,281	1	7x6½	125	5,687	132	5,940	120	5,400	150	6,750
1	39	10	16	65	5	. .	*68,828	2	51	166⅔	8,510	154	7,854	171	9,942	100	6,300
. .	33	8	16	57	3	1	1,746	2	54	60	3,240	59	3,186	53	2,862	136	7,344
. .	23	4	. .	27	4	3	*36,000	3									
. .	12	3	4	19	2	. .	780	3	35 35								
. .	26	3	6	35	4	. .	1,422	1	6x7	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	105	4,410
. .	24	. .	8	32	2	1	2,037	4	8x8	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	100	6,400
1	65	20	15	100	5	2	2,280	4	3½x5	†							
3	50	16	5	71	2	. .	2,000	2	6x5	‡							
. .	14	. .	1	15	1	. .	*14,000										
. .	16	7	13	36	5	. .	1,800	3	24	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	156	3,744
. .	19	3	5	27	2	2	1,300	2	42	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	200	8,400
3	38	8	16	62	3	. .	1,310¾	2	136								
1	112	23	21	156	6	. .	4,999	2	16 20	§							
4	24	. .	7	31	3	1	1,200										
2	55	7	9	71	3	. .	2,000	2	30								
. .	51	14	9	74	6	. .	2,450	3	42 16 18	200 100 150	8,400 1,600 2,700						
. .	34	2	4	40	2	. .	1,300	2	35	190	6,650						
. .	35	6	14	55	6	7	1,161	3	42	100	4,200	100	4,200	110	4,620	120	5,040
. .	87	11	23	121	8	5	4,367	. .	. . . .	¶							
2	40	10	18	68	3	3	2,255	2	42								
. .	101	5	28	134	8	3	5,137	. .	36	200	7,200	240	8,640	222	7,992	200	7,200
5	95	30	22	157	7	. .	6,100										
.	21	. .	3	24	1	1	1,335										
. .	23	3	. .	26	4	3	1,795										
. .	51	10	12	73	6	1	3,500	3	6x6 6x6 4x4	86 120 200	3,096 4,320 3,200	80 110 185	2,880 3,960 2,960	85 120 205	3,060 4,320 3,280	90 125 200	3,240 4,500 3,200
. .	18	3	6	27	1	1	624	3	36								
. .	36	. .	5	41	4	2	781	3	36								
. .	7	2	6	15	1	3	180	3	36								
. .	30	8	5	43	2	2	612	3	36	160	5,760	140	5,040	165	4,940	157	5,632

* Bushels.
† Furnace ventilation.
‡ Steam.
§ Ventilation by two furnaces.
¶ Ventilation by furnace.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.									
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
	Average velocity of air current per month at inlet.	Number of headings.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current per minute at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.
	11	12	13	14	15	16	17	18	19	20
Natrona Coal Works, . . .	. . . .	5	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Etna and Vesuvius, ...	131¾	3	. . . 30 92	 5,194	. . . . 105 22	 5,177	36 75 105	 7,800	35 96 112	8,767
Belleview Coal Works, .	. . . .	2	166	8,510	154	7,854	171	9,940	100	6,300
Mahoning Coal Works, . .	. . . .	. . . .	30	1,620	30	1,620	28	1,512	50	2,700
Pine Creek Coal Works, . .	. . . .	6	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Sligo Branch Coal Works, .	. . . .	10	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Pancost Coal Works, ...	. . . .	3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	60	2,700
Rockey Bend Coal Works, .	. . . .	3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	75	7,800
Bethel, Shaft No. 1, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Bethel, Shaft No. 2, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Karns City Coal Works, . .	. . . .	4	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Stewartson Furnace C. W.,	. . . .	2	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	124	2,480
Washington Coal Works, .	. . . .	3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	60	1,680
Hickory Mines, ...	. . . .	4	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Stoneboro' Mines, ...	. . . .	4	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Oakland, No. 1, ...	. . . .	2	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Oakland, No. 2, ...	. . . .	5	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Catfish Coal Works, ...	. . . .	3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Lower Hillville, ...	. . . .	3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Clinton Coal Mine, ...	. . . .	. . . .	200	2,800	200	2,800	220	3,080	240	3,360
Beaver Mines, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Pacific Slope, ...	. . . .	4	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Fairmount Coal Works, . .	. . . .	. . . .	100	2,500	120	3,000	111	2,775	100	2,500
Home Bank, ...	. . . .	2	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Reimerton Coal Works, . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Mahoning Furnace C. W.,	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Mineral Ridge Coal Works,	. . . .	3	135	3,555	127	3,200	135	3,555	138	3,635
Monterey Coal Works, . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Welsh Bank, ...	. . . .	3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Tod Mines, ...	. . . .	3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Jackson Coal Mine, ...	. . . .	5	165	4,125	146	3,650	170	4,250	164	4,100

Collieries in the Second Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.											
		1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
Average velocity per minute for the month.	Outlet—size of—feet.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Average number of feet passing out per month	LOCATION.
21	22	23	24	25	26	27	28	29	30	31	
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Allegheny county.
. . . .	7x5½	210	7,980	180	6,840	220	8,360	260	9,880	8,265	Allegheny county.
. . . .	53	293	15,546	279	14,787	300	14,703	300	10,800	. . . .	Allegheny county.
. . . .	25 25	75 43	1,875 1,075	73 43	1,825 1,075	70 40	1,750 1,000	176 70	4,400 1,750	. . .	Armstrong county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Armstrong county.
. . . .	24 24	. . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clarion county.
. . .	8½x9	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	59	4,425	. . . .	Jefferson county.
. . . .	5x5	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	100	2,500	. . . .	Jefferson county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Mercer county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Mercer county.
. . . .	. .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Butler county.
. . . .	25	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	128	3,200	. . . .	Armstrong county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	200	8,400	. . . .	Jefferson county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Mercer county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Mercer county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Mercer county.
. . . .	. . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Mercer county.
. . . .	27 16 42	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	100 200 100	2,700 3,200 4,200	. . .	Clarion county.
. . . .	16	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	300	4,800	. . . .	Clarion county.
. . . .	30	300	9,000	300	9,000	320	9,600	340	10,200	. . . .	Lawrence county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Lawrence county.
. . . .	30	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Mercer county.
. . . .	25	125	3,125	145	3,625	136	3,400	125	3,125	. . . .	Clarion county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Mercer county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Armstrong county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Armstrong county,
. . . .	4x6	300	7,200	265	6,360	300	7,200	305	7,320	. . . .	Clarion county.
. . . .	36	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clarion county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Lawrence county.
. . . .	25	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Beaver county.
. . . .	25	170	4,250	151	3,775	174	4,350	168	4,200	. . . .	Mercer county.

A STATEMENT *of the Names, Power, Capacity and Ventilation of the*
vania, for the month

NAME OF COLLIERY. 1	NAME OF OPERATOR. 2	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS. 3	Slope, shaft, or drift. 4	Pumps—how many. 5	Number of engines. 6	Horse-power. 7
Maple Grove,	S. P. McCalmont,	Bituminous,	Drift,	. .	. .	. .
Clinton Coal Mines,	Clinton Coal Company,	Bituminous,	Drift,	. .	. .	. .
Catfish Coal Mines,	Pittsburgh Coal and Mining Co.,	Bituminous,	Drift,	. .	. .	. .
Lower Hilville,	Pittsburgh Coal and Mining Co.,	Bituminous,	Drift,	. .	. .	. .
Stoneboro' Coal Mines,	Mercer Iron and Coal Company,	Bituminous,	Slope,	. .	1	75
Welsh Bank,	Wampum Coal Company,	Bituminous,	Drift,	. .	. .	. .
Mahoning Furnace Coal Bank,	J. A. Colwell & Co.,	Bituminous,	Drift,	. .	. .	. .
Tod Coal Mine,	G. P. Sanborn,	Bituminous,	Drift,	1	. .	. .
Bethel, No. 1,	E. A. Wheeler, Curtis & Boyce,	Bituminous,	Shaft,	1	1	30
Pacific Slope,	Dunham, Roberts & Co.,	Bituminous,	Slope,	3	1	40
Fairmount Coal Works,	Fairmount Coal Company,	Bituminous,	Drift,	. .	. .	.
Etna and Vesuvius Coal Works,	Spang & Chalphant, and Lewis, Dalzel & Co.,	Bituminous,	Drift,	. .	. .	. .
Natrona Coal Works,	Penn'a Salt Manufacturing Co.,	Bituminous,	Drift,	1	1	25
McEhlenney Coal Mines,	Tiel & McDowell,	Bituminous,	Shaft,	. .	. .	. .
Red Bank Furnace Coal Bank,	Reynolds & Morehead,	Bituminous,	Drift,	. .	. .	. .
Karn City Coal Mine,	H. R. Fullerton,	Bituminous,	Drift,	. .	. .	. .
Washington Coal Mines,	F. Williams,	Bituminous,	Drift,	. .	. .	. .
Sligo Branch Coal Mines,	Sligo Branch Coal Company,	Bituminous,	Drift,	. .	. .	. .
Bellview Coal Mines,	P. Y. Hite,	Bituminous,	Drift,	1	1	10
Beaver Coal Mines,	Lee & Patterson,	Bituminous,	Drift,	. .	. .	. .
Jackson Coal Mines,	Jackson Coal Company,	Bituminous,	Drift,	2	. .	. .
Oakland, No. 2,	Pierce & Frampton,	Bituminous,	Shaft,	2	1	. .
Mahoning Coal Mines,	Mahoning Coal Company,	Bituminous,	Drift,	. .	. .	. .
Pancoast Coal Mines,	Heims, Goodwill & Co.,	Bituminous,	Drift,	. .	. .	. .
Pardoe Coal Mines,	Mercer Mining and Manuf'g Co.,	Bituminous,	Drift,	. .	. .	. .
Barnes Coal Mines,	Mercer Mining and Manuf'g Co.,	Bituminous,	Drift,	1	1	15
Rockey Bend Coal Mines,	John F. Moulton & Co.,	Bituminous,	Drift,	. .	. .	. .
Stewardson Furnace Coal Mines,	F. B. & A. Loughlin,	Bituminous,	Drift,	. .	. .	. .
Reimerton Coal Mine,	E. J. Bowen,	Bituminous,	Drift,	. .	. .	. .
Home Bank,	Buhl & Westerman,	Bituminous,	Shaft,	2	1	50

respective Collieries in the Second Bituminous Mine District of Pennsyl-
of December, 1877.

								VENTILATION.									
										1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10
. .	17	2	5	24	3	. .	250	2	36								
. .	35	6	14	55	6	7	1,380	3	42	100	4,200	110	4,620	100	4,200	110	4,620
. .	51	14	9	74	6	. .	2,500	3	42 16 21	200 100 150	8,400 1,600 3,150						
. .	40	2	4	46	2	. .	1,300	. .	41½	190	7,790						
1	120	21	37	178	6	. .	4,669	2	16 20	. . . . . .	. . . .	. . . . .	. . . .	262 180	7,291 5,040	268 185	9,441 5,180
. .	86	3	13	102	5	4	2,245										
. .	23	2	1	26	4	2	1,691										
. .	20	2	4	26	2	. .	400	4	36	. . .	. . . .	. . .	. . . .	300	10,800	300	10,800
1	75	22	15	112	6	2	2,600	4	17½								
2	41	12	19	72	3	4	1,665	3	42								
. .	90	5	25	120	8	3	4,065	. .	36	300	10,800	200	7,200	240	8,640	200	7,200
. .	28	. .	7	35	4	. .	1,242	2	45¾	107	4,815	134	6,630	145	6,325	130	5,850
1	39	10	15	64	11	. .	2,923	4	30								
. .	13	. .	3	16	1	. .	513	2	18								
. .	30	22	19	71	7	2	1,814	2	. . . . .	120 110	 7,740	120 125	 7,890	115 110	 7,095	110 120	 7,395
. .	15	. .	. .	15	1	. .	538	2									
. .	25	3	4	32	2	2	1,300	2	42	100	4,200	200	8,400	150	6,300	80	3,360
. .	16	1	8	25	2	. .	. . . .	2	35								
1	64	11	8	83	5	. .	1,718	3	51 39 1¾	94 75 330	. . . . 8,296½	150 95 400	 12,055	145 89 380	 10,831	155 97 420	 12,443
. .	93	11	27	131	8	5	3,999										
. .	25	8	5	38	2	2	747	3	5.5X5.6 2.7X3	120 110	3,575 852½	70 90	2,081 694	95 100	2,888 778	105 115	3,122 891
4	68	5	12	85	4	. .	2,200	2	27¼	165	4,495	. . .	. . . .	. . .	. . . .	200	5,450
. .	31	7	16	54	3	1	1,139	2	54	75	4,050	58	3,132	53	2,862	75	4,050
. .	24	3	2	29	2	. .	3,216	2	42	105	4,410	102	4,284	95	3,990	108	4,536
. .	90	15	40	145	7	3	2,750	2	30	350	10,500	370	11,100	380	11,400	400	12,000
1	82	20	20	122	7	3	3,567	8	36 20	300	10,800	200	7,200	210	7,560	230	8,280
. .	40	. .	16	50	2	2	. . . .	4	48	100	4,800						
. .	16	7	12	35	7	. .	1,500	3	24	. . .	. . . .	. . .	. . . .	. .	. . . .	150	3,600
. .	21	1	3	25	1	1	1,160										
5	80	25	22	127	7	. .	4,500	2									

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.										
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.		
	Number of headings.	Average velocity of air current per minute per month.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current per minute at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Average velocity per minute for the month.
	11	12	13	14	15	16	17	18	19	29	21
Maple Grove,	7	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Clinton Coal Mines,	. .	. . . .	200	2,400	200	2,400	210	2,520	200	2,400	. . .
Catfish Coal Mines,	. .	. . . .	. . .	. . . .	. .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Lower Hilville,	. .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Stoneboro' Coal Mines,	2	. . . .	. . .	. . . .	. .	. . . .	76 153	684 2,448	87 156	783 2,496	. . . . . .
Welsh Bank.											
Mahoning Furnace Coal Bank.											
Tod Coal Mine,	2	. . . .	. . .	. . . .	. . .	. . . .	200	9,600	200	9,600	. . .
Bethel, No. 1.											
Pacific Slope,	4	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Fairmount Coal Works,	.	. . . .	120	3,000	100	2,500	120	3,000	100	2,500	. . .
Etna and Vesuvius Coal Works,	3	No. 3,	32	1,184	32	1,184	38	1,406	40	1,480	. .
		No. 4,	72	2,700	62	2,309	80	2,978	95	3,562	
		No. 5,	68	2,380	38	2,450	100	3,500	102	3,570	
Natrona Coal Works,	4	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
McEhlenney Coal Mines,	. .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Red Bank Furnace Coal Bank,	. .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Karn City Coal Mine,	4	. . . .	.	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Washington Coal Mines,	3	. . . .	100	3,200	200	6,400	120	3,840	70	2,240	. . .
Sligo Branch Coal Mines,	5	. . . .	. .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Bellview Coal Mines,	. .	. . . .	94	4,794	150	7,650	145	7,395	155	7,905	. . .
Beaver Coal Mines.											
Jackson Coal Mines,	7	. . . .	300	4,000	230	3,066	270	3,542	305	4,666	. . .
Oakland, No. 2,	5	. . . .	210	2,799	. . .	. . . .	. . .	. . . .	235	2,852	. . .
Mahoning Coal Mines,	. .	. . . .	35	1,890	30	1,620	28	1,512	35	1,890	. . .
Pancoast Coal Mines,	5	. . . .	80	3,600	90	4,050	78	3,510	83	3,733	. . .
Pardoe Coal Mines,	7										
Barnes Coal Mines,	4										
Rockey Bend Coal Mines,	3	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . .	. . .	. . . .	. . .
Stewardson Furnace Coal Mines,	1	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	134	2,680	. .
Reimerton Coal Mine.											
Home Bank.											

One accident in the Stoneboro' mines—John Dunkly, aged 18 years; single; slightly injured, December 24, 1877, by jumping between pit cars.

Collieries in the Second Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.										REMARKS.
	1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
Outlet—size of—feet.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Average number of feet passing out per month.	
22	23	24	25	26	27	28	29	30	31	
...	...	....	...	....	...	.....	...	....	...	Located in Venango county.
30	410	12,300	410	12,300	410	12,300	410	12,300	...	Copied as received from operator.
46	100	4,600								
35¾	100	3,575								
16	200	3,200								
16	300	4,800								
16	...	....	...	....	160	3,040	107	2,354	..	As reported by operator.
12	...	....	...	....	187	4,488	190	4,560		
25	...	....	...	....	700	17,500	700	17,500	...	
30										
25	150	3,750	145	3,625	125	3,125	100	2,500		
38	260	9,880	250	9,625	254	9,779	264	10,164		
30										
18										
...	...	5,613	...	5,160	...	6,007	...	5,800	...	As reported by operator.
...	...	....	...	....	...	...	...	......	..	As reported by operator.
42	100	4,200	200	8,400	150	6,300	80	3,360	...	As reported by operator.
24										
57	175	9,975	235	13,395	200	11,400	230	13,110		
15	365	5,474	350	5,250	360	5,400	347	5,205		
13	370	4,810	...	....	...	......	400	5,200		
25	80	2,000	73	1,825	70	1,750	80	2,000		
25	47	1,175	43	1,075	40	1,000	47	1,175		
76½	59	4,425	57	4,332	52	3,952	76	5,524		
48	100	4,800								
25	...	....	...	....	...	......	144	3,600		

Allegheny County Mines.

PENNSYLVANIA SALT MANUFACTURING COMPANY'S MINES.—Located near Natrona, on West Pennsylvania railroad. Mining boss, R. G. Boyd. Drainage good. Considerable improvements about to be made.

VESUVIUS COAL MINES.—Located at Hite Station, on West Pennsylvania railroad. Mining boss, Hugh Wood. Ventilation by furnace. No report.

BELLVIEW COAL AND SALT COMPANY'S MINES.—Located at Hite station, West Pennsylvania railroad. Mining boss, J. M. Watt. Ventilation by steam jet. Coal, seven feet thick. Report received. (See tabulated.)

Armstrong County Mines.

PINE CREEK FURNACE MINES.—Located at Pine Creek Furnace, four miles from Allegheny Valley railroad. Mr. Murry, mining boss. Drainage good. Partial report received.

STEWARTSON FURNACE COAL MINES.—Located two miles from Mahoning station, Allegheny Valley railroad. Mining boss, D. H. Bingman. Drainage good. No report.

MAHONING FURNACE COAL MINES.—Located on Mahoning creek, about seven miles from Allegheny Valley railroad. Mining boss, M. Anthony. Mines dry. Rooms driven to a great distance. No report.

MAHONING COAL MINES.—Located on Allegheny Valley railroad, Mahoning station. Mining boss, James Ashman. Mines not running the day visited. No report received.

REIMERTON COAL MINES.—Located at Reimerton Station, Allegheny Valley railroad. E. J. Bowen, mining boss. Mines lately opened; improvements promised. No report.

BOSTONIA COAL MINES.—Located near New Bethlehem, about one and a half miles from L. G. division, Allegheny Valley railroad. Mine not running at present.

Beaver County Mines.

TODD MINES.—Located two miles from Enon Valley station, Fort Wayne and Chicago railroad. When visited, they were cleaning and repairing tracks, to begin operations.

CANNEL COAL MINES.—Located at Cannelton. Mining boss, ———. Ventilation by furnace; fan recommended to assist same. Coal seven feet thick; mine dry.

Butler County Mines.

KARNS CITY COAL MINES.—Located near Karns City, Parker, Karns City and Butler railroad. Mining boss, William Penberthy. Mine reported in good condition. Report received.

Clarion County Mines.

RED BANK FURNACE COAL MINES.—Located near junction of Low Grade division and River division of Allegheny Valley railroad. T. Simpson, mining boss. Mines dry; improvement going on.

SLIGO BRANCH COAL COMPANY'S MINES.—Located near Reimersburg. Samuel Coon, mining boss. Improvements in drainage and ventilation promised.

FAIRMOUNT COAL MINES.—Located near New Bethlehem. Mining boss, R. Henry. This coal is overlaid with fire clay, and requires caution in working it.

CATFISH COAL MINES.—Located at Catfish, on Allegheny Valley railroad. Thomas Mitchell, mining boss. Three drifts, Nos. 1, 2, and 3. No. 1 worked out; Nos. 2 and 3 working. These mines have been running about six years, employing a great many men.

LOWER HILLVILLE COAL MINES.—Located on Allegheny Valley railroad, about three and a half miles above Catfish. T. Mitchell, mining boss. Mines dry; improvements in ventilation promised.

MINERAL RIDGE COAL MINES.—Located near West Monterey, Allegheny Valley railroad. C. W. H. Eicke, mining boss. Ventilation by furnace. No report.

MONTEREY COAL MINES.—Located near West Monterey, Allegheny Valley railroad. Mining boss, George Homer. Improvements in ventilation promised to be made.

Lawrence County Mines.

LEE & PATTERSON'S COAL MINES.—Located at Rock Point, on the Pittsburgh and Erie railroad. Mining boss, Benjamin James. Ventilated by furnace. Partial report received.

CLINTON COAL MINES.—Located at Rock Point, on the Pittsburgh and Erie railroad. Mining boss, John Craig. Ventilated by furnace. No report.

WELSH COAL MINES.—Located on the Pittsburgh and Erie railroad. Mining boss, Thomas Hurst. Ventilated by furnace. Not working when visited. No report.

WALLACE COAL MINES.—Located near New Castle. Mining boss, F. Kincade. Traveling-ways very low; coal pushed by hand to bottom of shaft.

DAVIDSON COAL MINES.—Located near Wampum. Mining boss, William King. Ventilated by furnace. Improvements promised. No report.

In regard to all mines visited, I must say that there is much room for improvements in ventilation, drainage, &c.—in many places depending on natural means for both. But in all places visited, the persons in charge have expressed a willingness to improve their means of supplying the want. But it will require some time yet before the old ways will be changed.

THIRD DISTRICT—W. L. Richards, Inspector.

To the Honorable WILLIAM MCCANDLESS,
Secretary of Internal Affairs:

SIR: In compliance with the requirements of an act providing the means of securing the health and safety of persons employed in the bituminous coal mines of Pennsylvania, approved the 18th day of April, A. D. 1877, I beg to submit my first annual report for the Third Bituminous Coal District, comprising the counties of Cambria, Blair, Huntingdon, Centre, Clearfield, Elk, Cameron, McKean, Potter, Clinton, Lycoming, Tioga, and Bradford, for part of the year ending December 31, 1877.

My report for this year must necessarily be limited, as I did not receive my commismission until July 20, after which some time was required to get the necessary instruments, blanks, books, &c. In entering upon the duties of mine inspector, I was fully aware of the responsibility of that office, and of the condition in which I should find the bituminous coal mines of this district, and fully anticipated the hard struggle the first inspector would have in getting the mines in a reasonable condition for drainage and ventilation.

The writer of this report has often remarked to some of our leading coal operators of this State, in regard to the reckless manner in which the bituminous coal mines were worked and ventilated, it is lamentable that such a condition of things was allowed to exist in a State that boasts of its mines as its greatest wealth. The question has often been asked by intelligent men, why has the great mining State of Pennsylvania allowed her mines to be worked in such a wretched manner? The question can only be answered satisfactorily by observing the way in which our coal lands are bought, and the mines opened and managed. A large section of coal lands are owned or leased by parties who have no knowledge of mining, and no adequate idea how a coal mine should be worked or ventilated. As a class, they live some distance from the field of operation, and give the subject of mining, or how a mine should be conducted, very little of their attention. There are some notable exceptions to the above. There are some companies the writer knows, from personal observation, have been trying to conduct their mines on some scientific basis. It is much to be regretted that we are so far behind the age in the mode of working our collieries, while Great Britain, Germany, and France have given laws by which the workings of their mines shall be governed, and laid down strict rules for both operator and workman, and have instituted schools of mines to educate their youth in theoretical and practical mining. We have done almost nothing, until lately. It is true, we teach a theoretical knowledge of mining in some of our institutions of learning, but it is only in theory; for when their graduates are called to take charge of a mine, their want of practical knowledge of mining soon becomes apparent to the dullest of their workmen.

For the profession of manager in England, a regular apprenticeship is served. Viewers of experience have youths articled to them, who for several years are under their tuition. By this means, being constantly at a large colliery, they see all its operations from day to day; see what their master does in all the emergencies that occur; are with him when he surveys, and learn to use the instruments; are set to plans, and taught to prepare them; go down the pits regularly, and by and by get some little charge, which is gradually increased as the fitness of the student prepares him for it. In this way a thorough and practical training is obtained, and at the end of it, with a certificate of merit from his master, he gets at first a situation, after which, of course, the future very much depends upon himself.

In this country, in too many instances, it is the reverse of all this. A company will buy or lease some coal land, and the first move is to hire a superintendent, who is chosen, not because of his practical training or knowledge of mining, but in many cases because he is a relative or friend of one of the company. He may have been a shrewd manager in some other department, but his knowledge of conducting a mine is very limited. The result is, that thousands of dollars are thrown away upon useless labor. Such a superintendent generally makes another blunder, by choosing an incompetent inside boss. The result can be imagined. If we examine the mine, we find no system of mining adopted. *Chaos* can be the only word fitted to describe such a mine; no ventilation, no drainage; pillars, rooms, or breasts worked into one another; thousands of tons of coal are lost to the State, the land-owner, and the operator annually, through this sort of management. Pillars are left in such a position that they never can be got out, and the company, after they have figured so many tons to the acre on paper, find the actual production of the coal and their figures do not agree; while the hard working miner, that should have the free and pure air which the laws of the Creator have given him, is often deprived of it through the negligence and mismanagement of those having charge of the work. Instances could be cited where coal companies have become bankrupt through the reckless management of incompetent managers. This is no fanciful sketch, but taken from an extensive and close observation of the coal mines of Pennsylvania for over twenty years.

One reason given by some coal operators, for the negligence of the government in looking into the mode of working and ventilating our mines, and especially the bituminous coal mines, is the small scale on which they are worked, compared with the deep pits and extensive mines of Great Britain and other countries. Another reason given why the State did not interfere before this present movement was inaugurated, is because it is claimed there was no *carbureted hydrogen*, a large number of our mines being above water level, and therefore generated no dangerous gases. Now, as to the passing of laws for the protection of those employed in our mines: First. Do not the laws of humanity, and the laws of a civilized country demand that small numbers of her people be cared for as well as large ones. If in a single pit in Great Britain they employ three hundred men, and in this country that three hundred is divided among six different coal mines, is that any reason why they should be allowed to work in foul air, and meet a premature death, by breathing carbonic acid gas.

In the second place, have we not a gas as dangerous as carbureted hydrogen or fire damp to contend with? Let us consider the matter, and see if we have not. What is this carbonic acid gas that our bituminous coal mines are charged with, and what are its effects upon the human system? It is true that hundreds of lives are lost by explosions in the mines, and every little while we are startled, by the announcement through the public press, that another colliery explosion has taken place. But on the other hand, no note is taken of the hundreds that die, and fill a premature grave, not by the explosion of fire damp, for it is not by these great calamities that the most of our miners are killed, but by that slow and insidious poison known as black, or choke damp, or in other words, carbonic acid gas, by which the life blood of its victim is sapped away, and which is found in such large quantities in those mines where the ventilation is imperfect. When we look into these mines, and find no current of air, not even enough to turn the anemometer, and what little there is charged with carbonic acid gas, no wonder the miner's cheeks look thin and pale, or that asthma attacks the young, or that men never grow old, but die, and fill a premature grave.

This gas is always present in the atmosphere in small quantities, the proportion ranging from three and three quarters to six volumes in one thousand, the average being about five volumes. Near the surface of the earth, the proportion changes with the seasons, and there are more changes during the night than during the day. Its weight, on an average, is found to be about thirty-one grains per one hundred cubic inches, but is liable to constant changes, according to the degrees of density of the atmosphere. Let us see what the effects of that gas will be, if breathed into the lungs in large quantities. Throughout the human body, and extending to every part, is a beautiful, minute, and complete system of canals or channels, for the passage of the blood, and the heart, like a great force pump, drives it through every part of the system along those canals. The pulse at the wrist marks every stroke of that pump, numbering from sixty to seventy per minute in an adult. These strokes are increased by exercise and motion. At every stroke, about three ounces are propelled, and hence it requires about ninety-six strokes for every complete circle of the blood, which occupies about one and one third minutes, at a pressure of about four pounds three ounces per square inch, or a total propelling power of about thirteen pounds. The blood from the heart is sent through one system of canals, called arteries, and is brought back by another system, called veins.

The arterial blood is of a bright red color, and the venous of a dark purple. And so important is this change from arterial to venous that the blood which has once been subjected to it is not fit to pass again into the arteries until it has been purified by exposure to air in the lungs. We find the arterial cargo is a clean and healthy one, and the venous cargo a foul and poisonous one, charged with the deadly carbonic acid gas. This must be cleansed, or destruction to human life will be the result. To cleanse that blood, on either side of the heart are placed the lungs, with innumerable air chambers, through which, in its passage, the foul blood is exposed to the air we inhale at every breath, and cleansed from its impurities. Thus we find that poisonous gas (carbonic acid) thrown out of the nostrils and mouth, and the blood is again fitted for a new round of duty. The quantity of oxygen taken in for this purpose, and the quantity of carbonic acid discharged, is always in the proportion to the amount of exertion we undergo. In a state of rest, an adult takes from fourteen to eighteen draughts of air each minute, and at each of these about twenty cubic inches are inhaled. Taking an average of exercise and repose, about three hundred and sixty cubic feet pass through the lungs in twenty-four hours, or about fifteen cubic feet an hour; and as air that has once passed through them contains about one twenty-fourth part carbonic acid, it follows that about fifteen feet of this gas, containing nearly eight ounces of solid carbon, are thrown off every twenty-four hours. This carbonic acid gas, when diffused to any considerable extent, is very injurious to the health of the individual breathing it, and will soon bring him to an untimely grave. The usual proportion in the atmosphere has already been stated to average five volumes in one thousand. Let this be increased to one hundredth, and its effects begin to be felt in languor, headache, and general depression. From the very highest authority we find it stated that two per cent. of carbonic acid is decidedly injurious to the system, and four per cent. would speedily cause death to the person inhaling it. The blood laden with it cannot get emptied, and so stands still, because the air inhaled will not purify, owing to its want of oxygen. If allowed to continue in this state, death is the consequence, but if the carbonic acid in the lungs be replaced by pure air, the flow of the blood again commences, the several functions are gradually restored, the nervous system recovers its powers of acting, and all goes on as before. There are other causes in a mine that tend to make the air impure and injure the health of the individual breathing it—such as the animal excretion from the bowels and kidneys, which have a fetid smell, and increase the impurity of the air; the decay of timber, which creates bad smells and vapors that are always deleterious; the explosions of gunpowder all day long, forming carbonic acid, azote, oxide of carbon, carbureted hydrogen, and sulphureted hydrogen, unburned smoke, sulphuret of potassium, and sulphate of potash; also, the combustion of lamps,—all of which are taking the oxygen from the air, and pour more carbonic acid into the already vitiated atmosphere, and every man and animal working in the mine throw off, through the pores of the skin and lungs, a fetid organic matter, tainting the air around him, unless the mine is well ventilated and a good current of air passing around. I might go on and enumerate many other causes, always tending to destroy the healthy properties of the air in the mine, and where an efficient circulation is not provided, we see the result. The heart is dull when it might be cheery, the arm is tired when it might be strong, and the men go home with less work done and more weariness, simply because they are deprived of the means that would supply them with Heaven's free gift, fresh air. No ready reporter gives to the world the number of deaths that are caused annually by breathing carbonic acid gas in badly ventilated mines. It may be safely claimed, upon good authority, that about one third of the value of the miner is cut off by the hand of death, but the causes which bring him to the tomb must necessarily diminish the amount of work he is able to perform in the best years of his life, and, upon recent calculation, it has been found that one fifteenth of the miner's working life is taken away from him by sickness or other causes peculiar to his calling. Is it not time, with these facts before us, that coal operators and our legislators give some little of their attention to the subject of mining coal? Are we, as an intelligent people, to stand still in this matter? While other nations around us are working their mines on a scientific basis, ours are left to be conducted and managed by men knowing very little of practical mining. But I trust a new era has dawned upon us, and henceforward our collieries will receive more attention from State and operator. Having briefly reviewed the condition of the bituminous coal mines of this State, and their imperfect ventilation, with the evil effects upon the life and health of the men employed in them, by inhaling the poisonous carbonic acid gas with which imperfectly ventilated mines are always charged, I leave the subject, trusting that a few years will bring about a better system of working and ventilation in the bituminous coal mines of Pennsylvania.

Condition of the Mines.

In submitting to you this part of my report, I had hoped to have gone through my district, so as to lay before you the condition of the various collieries, but the district is so large and scattered, requiring many hundreds of miles to travel to reach the various mines, that I found it impossible, in the limited time at my command, to reach them all. A more careful examination is required the first time a mine is examined. A larger correspondence the first year requires the attention and time of the inspector, owing to many new questions that have to be answered, and a large number of issues come up to be settled, causing considerable delay. I would here state that, in my judgment, the district is too large to do justice to all parties concerned and carry out fully the provision of the law. In my correspondence with the operators and managers, I find a general disposition to comply with the provision of the late ventilation act.

I trust that after a thorough examination of the mines in my district, and a mutual understanding between operator and inspector, I shall be able to lay before you, in my next report, other facts of public interest concerning the condition and progress of mining. In looking over the returns, as required by section five of the act, you will find very few. I sent blanks to all the collieries of which I had the address, but, after waiting patiently, I found very few returns made. Before entering legal proceedings against the delinquents, I addressed a note to the Attorney General, asking his views on the matter. I received an answer, which you will find embodied in a circular that I have issued to the operators and superintendents of my district, calling their attention to the above and other portions of the law that I wished carried out.

Before closing my remarks about the returns, I wish to mention, as an example of promptness in this respect, the name of Mr. Jno. Fulton, general mining engineer for the Cambria Iron and Coal Co., and the Blair Iron and Coal Co., who promptly complied with the law requiring the returns to be made of the air measured each week, and forwarded to this office at the close of each month. In my correspondence with this gentleman, he has shown a willingness to comply with the provision of the law in every respect. As this report may fall under the notice of the operators and managers of the bituminous coal mines of this district, I would earnestly appeal to them to help me to carry out the provision of the late act providing the means of securing the health and safety of persons employed in the bituminous coal mines of Pennsylvania. In my intercourse with the superintendent and inside boss, I too often find the inside boss has represented his mine well ventilated, when, in fact, on examination, it was *vice versa*. It was done, perhaps, with the intention of getting the good will of his employers, or, perhaps, to show that he could ventilate a mine with little or no expense, or as some have tried to make me believe, they could ventilate by natural ventilation. If they will give the working and ventilating of their mines a more personal supervision, and exact of their inside bosses a more accurate statement of the condition of their mine, they will greatly add to the facilities in carrying out the requirements of the law. In my examination of the mines in my district, I find some have no system of working or ventilating, others have a partial system, and a few have a good and scientific plan of working and ventilating their mines. Among the latter I find the Morris Run Coal Mining Co., under the management of W. S. Nearing, Esq., located at Morris run.

Tioga Company.

This company has two drifts in operation. The mode of working and ventilating these mines is known as the double-heading system; each heading or gangway has a back heading to carry the air up, connection being made every fifteen yards for air. The plan of the work is to drive one double heading or gangway. Headings are then driven at right angles to the main one, with back heading for air. The coal is then worked from one of these right-angle headings to the other, so that each section of coal is worked out alone, and each heading is ventilated separately, in the following manner. A current of air is allowed to pass up one of the headings, from the main gangway, which goes fresh to the top of the heading. It is then conducted around the face of the workings of the heading, and, after ventilating that heading, is conducted over the top of the heading by *an overcast*, and returned into the return air course, going to the furnace. Each heading is ventilated separately, with a fresh current of air, so that one set of men do not receive all the foul matter and accumulated gasses of the other headings, but receive a separate and distinct current of fresh air. It will be seen, at a glance, the advantage of such a mode of ventilating a mine. This system, I consider the best now in use in this State. The supply of air in this mine is sufficient, if properly conducted around the face of the workings. This company also has a slope which, at present, is not working, but in good working order. The slope is two thousand two hundred and seventy feet in length, sixteen feet wide, and seven feet high. The coal is drawn out by an endless wire rope, moving steadily along at the speed of a man walking. The mine wagons are attached to the rope by means of a patent clutch. The capacity of this slope is one thousand five hundred tons per day of ten hours. To run this rope and haul up the coal, requires two engines of sixty-horse power.

Fall Brook Mines.

These mines are located at Fall Brook, in Tioga county, and are worked and ventilated on the double-heading system and furnace, but no overcast. I will here state, that while the double-heading is good, without an overcast, it has one fault, viz: one current of air has to be conducted all round the work. The result is apparent. The current of air, if the mine is a large one, in the long course it has to travel, through all the headings and workings of the mine, it becomes charged with carbonic acid gas, and all the foul matter from the bodies of men and animals. The result must be, the last set of men breathing the air will have it very impure, indeed. I found in this mine a fair current of air, but the inside boss finds a great difficulty in conducting it to the face of the workings, caused mainly by the falling in of some parts of the mine, leaving large fissures open to the surface, causing counter-currents, which is difficult to overcome.

Arnot Mines.

Operated by the Blossburg Coal Company, S. B. Elliott, superintendent. Located at Arnot, Tioga county. This company is working three drifts. They are worked and ventilated on the double-heading system, with furnaces. I found the mine very well drained, and an average current of air at the inlet and outlet; but some of the headings were not very well ventilated. Spoke to the superintendent about the headings, and he stated that it was his desire to have his mine well ventilated, and that any directions I should give, he would strictly carry out, and that all the necessary changes should be made for ventilation, and to carry out the provisions of the law.

Antrim Mines.

Located at Antrim, Tioga county, operated by the Fall Brook Coal Company. This company is working three drifts, worked and ventilated on the double-heading system, with furnace. Thomas Farrer, superintendent. Found the ventilation about average; the air should be more properly distributed around the face of the workings. No. 3 drift is not very well drained; No. 1 and No. 3 ventilated by one furnace, which is not sufficient for that purpose; requested that a furnace be put in; the Superintendent stated that he should do all in his power to have his mines in good order, and well ventilated, and that he would have a furnace put in, and make such alterations as suggested.

McIntyre Mines.

Operated by the McIntyre Coal Company. Located at McIntyre, Lycoming county. This company has three drifts in operation, and worked partially on the double-heading system, with furnace. This work has been badly managed in years past, and cut up with very little system about it, making it a difficult task for the present manager, G. H. Platt, to get it in a proper condition for working and ventilation. The ventilation will be about the average, and will need strict attention on the part of the inside boss, to keep the air up to the face of the workings, on account of the many breaks in the mine that are open to the surface. A first-class drift has just been opened, and can be well worked and ventilated. I have requested some improvements to be made, and the superintendent promptly stated that all the necessary improvements should be at once made, and that he wished his mines so conducted, as to fill all the requirements of the law.

Carbon Run Mines.

Operated by the Schraeder Coal Company. Located at Carbon Run, Bradford county, R. A. Abbott, superintendent. Found this mine in a fair condition, but with that almost universal drawback to proper ventilation, viz: the air is not properly conducted up the face of the workings. This mine is worked with a mixture of the double and single-heading system, and ventilated partially by furnace, and natural ventilation. The mine is well drained, and will require some alteration, before meeting the requirements of the law.

Barclay Coal Company.

This mine is operated by the Towanda Coal Company, A. B. Chamberlin, superintendent, and F. T. Lyons, mining engineer. This colliery has two drifts in operation, and is worked and ventilated with part of the single and double-heading system, with furnace. The ventilation of this mine can be classed as average, and is well drained. Some alterations were suggested as being necessary; also, the building of a new furnace was considered. In my correspondence with the superintendent, he informs me that it is his wish to have his mines well ventilated and conducted so as to meet all the requirements of the law, which he has no disposition to evade in any respect; on the contrary, has stated that he will do all in his power to aid the inspector in the discharge of his duty.

Moshannon Mines.

Operated by the Moshannon Coal Company. Located on the Moshannon branch of the Tyrone and Clearfield railroad, in Clearfield county. P. B. Zentmyre, superintendent. This company operate two drifts, one of which is nearly worked out, the other is a new one. Worked on the single heading system, with natural ventilation.

Found the drainage very good, but the ventilation very poor for want of a ventilating furnace. Spoke to Mr. Zentmyre about having a furnace in his mine, and found him willing to comply with all the requirements of the law, and stated he should have a furnace put in immediately.

NOTE.—Since writing the above, a good furnace has been built and other alterations made, so as to ventilate the mine thoroughly.

Sterling Colliery.

Operated by Robert Hare Powell. Located on the Moshannon branch railroad, in Clearfield county. Working three drifts, two of them being where the bulk of the coal comes out. Edward McHugh, superintendent. This mine is worked nearly on the single-heading system, and natural ventilation. The coal out of two drifts is hauled out by a locomotive, a furnace being placed in each drift to carry off the smoke and gases, but are not used to ventilate the mines. I found a fair current of air at the inlet and outlet, and Mr. James Campbell, an efficient inside boss who thoroughly understands his business, is doing all he can to have the mine thoroughly ventilated; but, as is well known to all who have studied the theory of mine ventilation, natural ventilation cannot be depended on; for the temperature of the mine and the outside air, at certain times of the year, must be equal, when, of course, there will be no current of air going in or out of the mine. With a good furnace this mine can be well ventilated.

Franklin Mines.

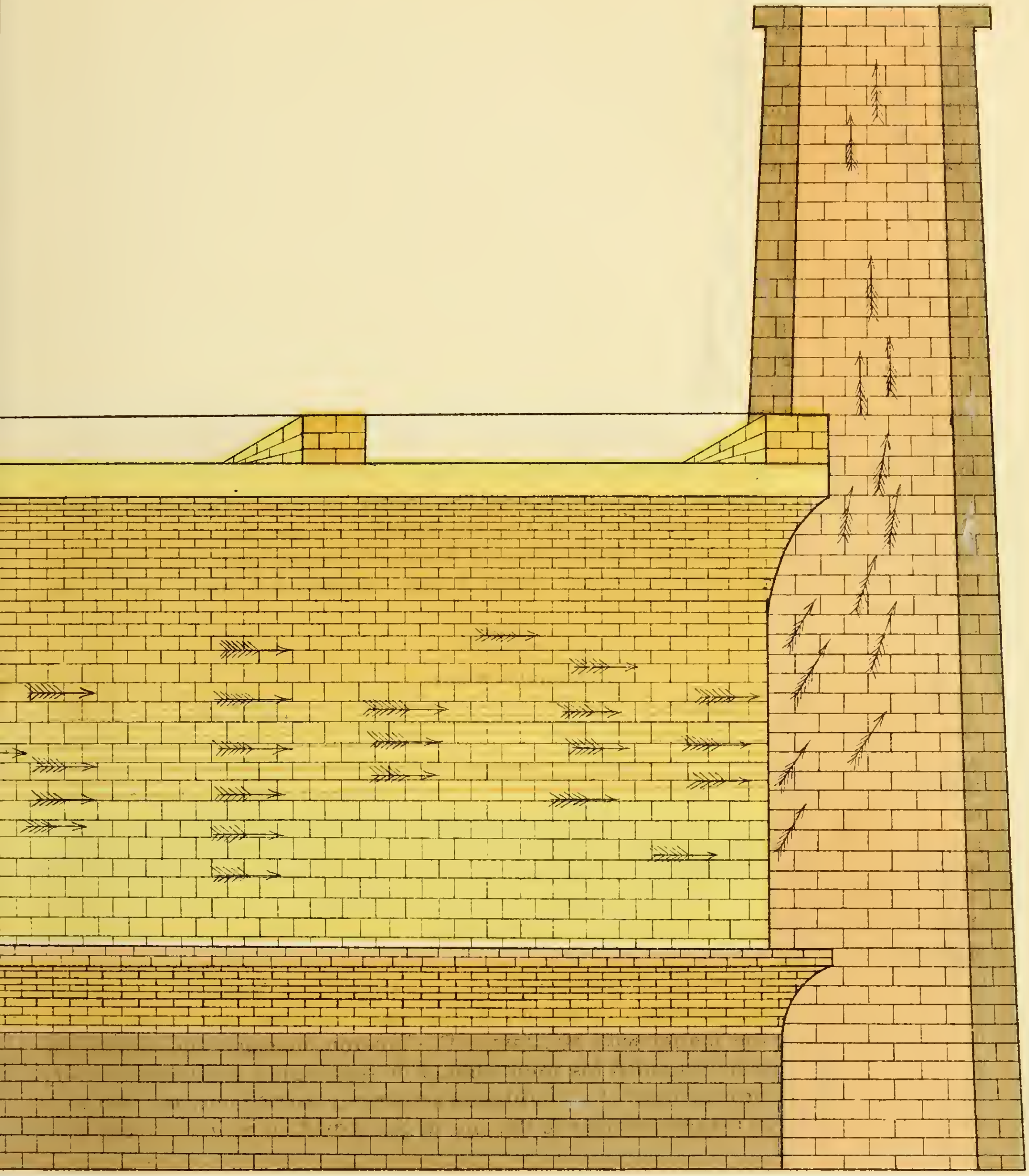
Operated by the Kittanning Coal Company. Located on the Moshannon branch, near Houtzdale, Clearfield county. This mine is worked partially on the double-heading system and furnace. This work is among the largest in Clearfield county. Two drifts are in operation, the coal being hauled out by a small engine, a furnace being used to carry off all the smoke and gases. A large ventilating furnace has lately been put in No. 2 drift—a drawing of which accompanies this report. This furnace, I consider large enough to ventilate any single drift of the capacity now in operation in this State. This furnace, I carefully tested, and, with a medium fire, gave twenty-five thousand cubic feet per minute of air passing over the fire. This will give ample and sufficient air to all working in the drift, and only wants to be properly conducted around the face of the work, to give the men a good supply of fresh air. No. 1 drift has a smaller furnace—too small, in fact, for the amount of air that has to pass through it. In talking over the matter with Mr. James R. Cameron, manager and mining engineer, he stated that he intended his mine should be thoroughly ventilated in every respect, and all the provisions of the Ventilation act strictly carried out, and that he is going to build a large furnace, similar to the one in No. 2 drift, as soon as he can get a shaft down.

Penn Colliery.

Operated by the Penn Coal Company. Located on the Moshannon branch, near Houtzdale, Clearfield county. Ventilated and worked on the single-heading system, with furnace. E. W. Mentzer, superintendent. This mine is a difficult one to ventilate thoroughly, owing to its being cut up with faults and clay-veins. Found the ventilation about average; the current at inlet and outlet medium. I found the air not properly conducted around the face of the work. Suggested some alteration, which the superintendent stated should be strictly carried out, and that he should be endeavor to comply with the requirements of the law.

Beaver Run Colliery.

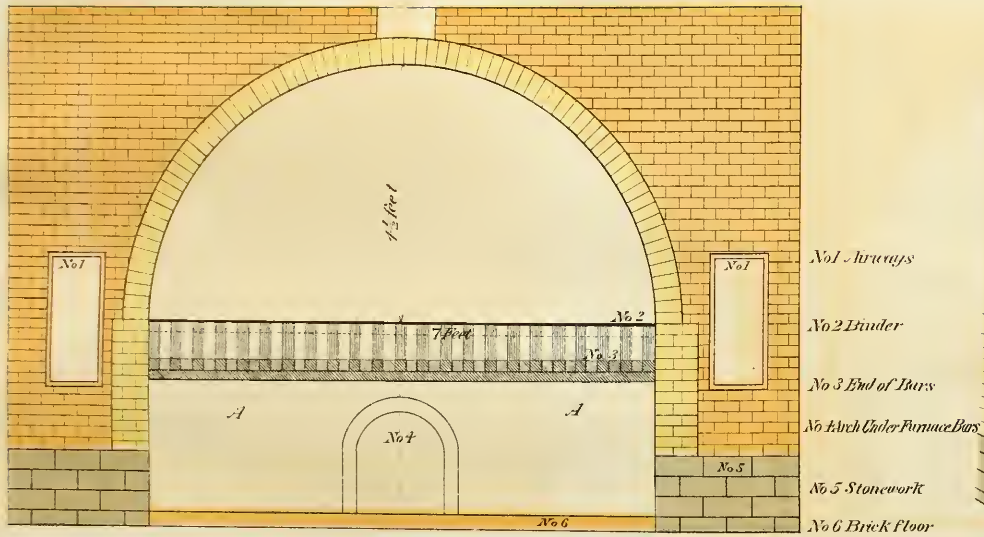
Operated by William Kendrick & Co. Located on the Moshannon branch, above Houtzdale, Clearfield county. Worked and ventilated on the single-heading system.



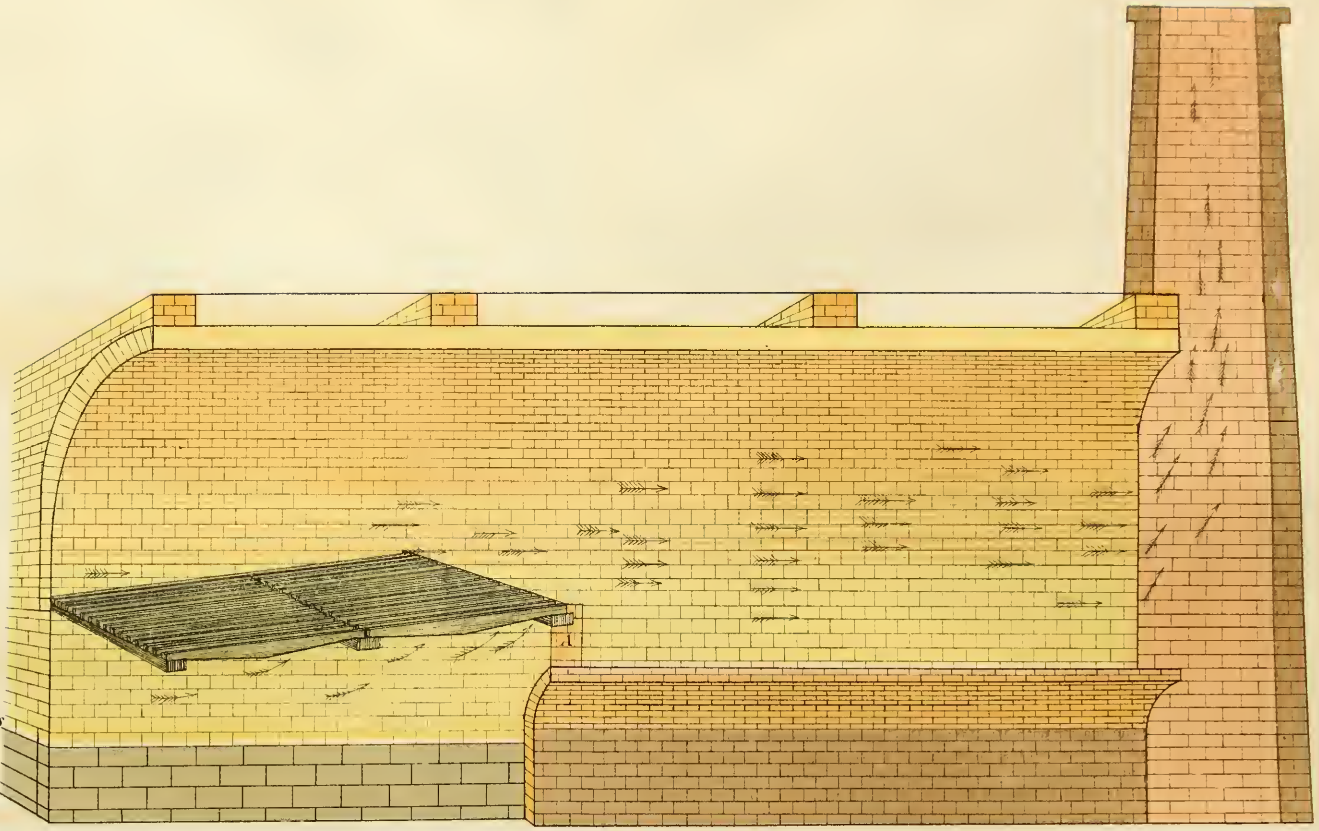
ction- In perspective.

Scale of ⅜ inch to foot   J.R.Cameron M.E.

A, Wall extending across, below Grate.



End Elevation



Longitudinal — Section- In perspective.

Scale of ⅜ inch to foot J.R.Cameron M.E.

Plan of Ventilation Furnace in the Mines
OF THE
Kittaning Coal Co.

Accompanying Report of W^{m} L. Richards, Mine Inspector, 3rd Dis^{t} P^{a}

A, Wall extending across, below Grate.

Natural ventilation. This company is working a slope and one drift. The drainage is good, and the mine well conducted, but the ventilation is poor. The slope cannot be properly called a slope, having a pitch only of four degrees, and communicates with the drift. I had a conversation with the superintendent about having the mine ventilated, when an arrangement was made to have a furnace put in, as soon as possible.

Eureka Colliery.

Operated by Berwind, White & Co. Located on the Moshannon branch, near Houtzdale, Clearfield county. Worked and ventilated on the single-heading system, with furnace. This mine is nearly worked out. The ventilation cannot be of the best, owing to the many breaks in the top, reaching to the surface, and by bringing back the pillars connecting with the air-courses. The superintendent, Mr. Peter Cameron, is using all the means at his command to have his men supplied with fresh air.

Webster Colliery.

Operated by the Webster Coal Company, limited. Located on the Goss Run Branch, leading off the Moshannon branch, two miles from Houtzdale, Clearfield county. This company has two drifts in operation, worked and ventilated on the single-heading system, with furnace. I found at this mine two very good ventilating furnaces, and a good current of air, but the usual failure to conduct it around the face of the work. This failure, on the part of the inside boss, to conduct the air to where it should be taken, is a common failure in too many of our coal mines. So many inside bosses, even when they have a good current at the inlet, fail to get it to the face of the mine. This mine is well drained, and with close attention, and some alterations suggested, can be well ventilated.

Ocean Colliery.

Operated by John Whitehead & Co. Located on Goss Run Branch, Clearfield county. This company has two drifts in operation, worked partially on the single-heading system, ventilated by two small furnaces, too small to ventilate the mine thoroughly. Mr. John Whitehead, the superintendent, who thoroughly understands his business, stated that he did not wish to make any alteration until I had examined the mine. He then expressed a wish to have his work so arranged and conducted, as to fill all the requirements of the Ventilation act. The result was, since my notes were taken, a large ventilating furnace has been built, sufficient to ventilate both drifts, and with proper care on the part of the inside boss, the mine will be well ventilated.

Excelsior Colliery.

Operated by A. G. Fisher & Co. Located on the Goss Run Branch, in Clearfield county. This mine is worked and ventilated principally on the double-heading system, and since my examination a good furnace has been put in, and other alteration made, that will add greatly to the ventilation of the mine. This company works one drift, which is in good order, and one of the best shafts for a furnace that I have seen during my examination of the various mines. With such a shaft, and a good furnace, this mine can be well ventilated.

Goss Run Colliery.

Operated by Berwind, White & Co. Located on the Goss Run Branch, Clearfield county. Ventilated by a very good furnace; found a good current of air at the inlet, and a current of eighteen thousand cubic feet per minute passing over the furnace. This mine is a good type of the single-heading system, showing all the advantages and disadvantages of this mode of working and ventilating a mine. After having seen the two systems thoroughly tested, I am in favor of the double-heading plan. A mine can be more thoroughly ventilated, the pillars taken out to better advantage, and the mine worked more economical. This is a new work, and the superintendent, Mr. Peter Cameron, states, this colliery shall come up to all the requirements of the law.

Mapleton Colliery.

Operated by Berwind, White & Co. Located two miles from Osceola mills, on the Laurel Run Branch of the Clearfield railroad, in Clearfield county. This company are operating one drift, worked and ventilated on the single-heading system, with a good furnace. I found a good current of air at the inlet and outlet, but not sufficient at the face of the work. Some alteration in the mode of conducting the air was suggested to Mr. W. A. Crist, the superintendent, which was readily conceded, and he stated he was anxious to have his mine come up to the standard.

Laurel Run Colliery.

Operated by J. Nuttall & Co. This mine is located on the Laurel Run Branch of the Clearfield railroad, in Clearfield county. G. W. McGaffey, superintendent. Ventilated and worked on the single heading system, with natural ventilation. This company work one drift, and is doing a fair business. I found the ventilation very poor, and immediately wrote to Mr. McGaffey, the superintendent, about the matter. He replied without delay, and I have no doubt his mines will be found well ventilated in the future.

Logan Colliery.

Operated by John Whitehead & Co. Located on the Laurel Run Branch of the Clearfield railroad, in Clearfield county. This company is working one drift, which is worked and ventilated on the single heading system, with natural ventilation. Found little or no current at the inlet and outlet. This company informs me that their lease expires January the 1st, 1878, and if they should lease it again, they would have the the mine put in good order, and have a furnace, with such other alterations as may be necessary, to have the mine thoroughly ventilated.

Reading Colliery.

Operated by Richard J. Hughs & Co. Located on the Laurel Run Branch railroad, in Clearfield county. This company is working one drift, and ventilated on the single-heading system, with natural ventilation. I found little or no current of air at the inlet and outlet, and very bad at the face of the work. The above facts were laid before Mr. Richard J. Hughs, the superintendent. He was somewhat surprised, and stated that immediate steps should be taken to have his mine well ventilated, and in answer to a letter from the writer, sent a reply showing that steps were taken to have his mine well ventilated.

Morrisdale Colliery.

Operated by R. B. Wigton. Located at the terminus of the Morrisdale branch of the Tyrone and Clearfield railroad, three miles from Phillipsburg, in Clearfield county.

W. H. Wigton, superintendent. This company is operating three drifts, and have just started a new one. Two of their drifts are nearly worked out. Ventilated and worked on the single-heading system, with natural ventilation. I found the ventilation not very good—a small current at the inlet and outlet, and very poor at the face of the work. Communicated with the superintendent and R. B. Wigton on the subject, asking for a furnace and other alteration. Received a reply indicating the desire of the writer to comply with the law, and have his mine thoroughly ventilated.

Decatur Colliery.

Operated by John Nuttal & Co. Located on the Morrisdale Branch railroad, Clearfield county. This company work one drift on the single-heading system, with natural ventilation. The ventilation here was not good, and added to this are natural obstacles in the way that cause some trouble in getting a current of air around the work. The mine is cut up by a series of very bad faults, the worst I have seen in Clearfield county, but all these difficulties can be overcome by proper management. Had a conversation about the matter with Mr. Nuttal, the superintendent. He stated that he should have his mine immediately put it in good order, and a furnace put in as soon as possible; that he should obey the law, and try and carry out its requirements.

Glenwood Colliery.

Operated by Cornelius Campbell & Bros. Located on a branch leading off the Tyrone and Clearfield railroad, in Clearfield county. This company is operating two drifts, one in the upper vein of the Clearfield field, the other in the vein generally worked in that county. They are worked on the single-heading system, with natural ventilation. I found the mine well drained, but very poorly ventilated. Had a conversation with one of the brothers, about the ventilation of their mine, and he stated that a furnace should be put in immediately, and such other alterations made, that would fill all the requirements of the law.

Powelton Colliery.

Operated by Robert Hare Powell. Located on the Tyrone and Clearfield railroad, in Centre county. One drift is in operation. Worked and ventilated on the single-heading system, with natural ventilation. I found the ventilation in this mine very poor; little or no current at the outlet or inlet. I communicated with Mr. Ed. McHugh on the subject. He wrote to me: The mine had not been in operation for some time, except a few pillars working. They had but recently commenced operations in full, and the necessary arrangements for ventilating the mine had not been completed, but that he should have the mine put in proper order immediately. He wished to place no obstacles in the way of the law, but have his mine up to the requirements called for.

Snow Shoe Mines.

Operated by the Bellefonte and Snow Shoe Railroad Company. Located at the terminus of the above road, near the town of Snow Shoe, in Centre county. This company has two drifts in operation, and are having a first-class drift put in. One drift only is operated to any great extent. At this mine, I found a good current of air, at the inlet and outlet; but for the want of the necessary brattice and doors, the air was allowed to escape before it reached the face of the workings. The mine is well drained. Ventilated and worked principally on the single-heading system, and natural ventilation. I had a conversation with the president of the company, Mr. Daniel Rhoads, and the superintendent, Mr. John S. Sommerville, about the ventilation of the mine. Mr. Rhoads at once stated the mines should be immediately put in proper order, and the requirements of the law carried out. Messrs. Rhoads and Sommerville seemed anxious to have their mines come fully up to the requirements of the Ventilation act. I close this report for the present, trusting to give you, in my next annual report, a more detailed account of the condition and progress of all the collieries of my district, and other matters of public interest. With this report will be found a tabulated list of the casualties, so far as reported to me, up to this date.

I herewith append the circular issued by me, and referred to in the foregoing remarks:

BLOSSBURG, TIOGA COUNTY, PA., *December 14, 1877.*

To the Operators and Mine Superintendents of the Third Bituminous District of Pennsylvania:

I desire to call your attention to the fact that some of the most important provisions of the ventilation law, an act providing the means of securing the health and safety of persons employed in the bituminous coal mines of Pennsylvania, are not receiving that attention from you that their importance demands.

Section five of the law requires that it shall be the duty of the mining boss to measure the air-current at least once a week, at the inlet and outlet, and at or near the face of the headings, and keep a record of such measurement, and report the same to the inspector of his district once in every month.

It is essential that this section of the law be complied with, and that returns of the air measurement be sent to this office no later than the 6th of each month following the one in which the measurement was taken. Blanks have been furnished for that purpose, and are expected to be filled and promptly forwarded as by law required. To carry out the requirements of the law, it is imperative that the superintendent and mining boss have an anemometer to measure the air-current, as required by section five of the ventilation act. I would most respectfully call your attention to the opinion of the Attorney General upon this subject, and hope you will conform, without further delay, to the provisions of this section:

COMMONWEALTH OF PENNSYLVANIA,
OFFICE OF ATTORNEY GENERAL,
HARRISBURG, PA., *December 6, 1877.*

WM. L. RICHARDS, Esq.,

DEAR SIR: Yours of the 5th instant is received.

By the fifth section of the act of April 18, 1877, it is provided "that it shall also be the duty of the mining boss to measure the air-current at least once a week, at the inlet and outlet, and at or near the face of the headings, and keep a record of such measurements, and report the same to the inspector of his district, once in every month." This makes it obligatory upon the mining boss to make this report as required in the portion of the section quoted, and an omission to make such report is a violation of the act; and by the thirteenth section of the act, the inspectors are required to "notify the owners, lessees, or agents immediately of the discovery of any violation of this act, and of the penalty imposed thereby for such violation, and in case of such notice being disregarded for the space of ten days, they shall institute a prosecution against the owner, owners, agent, or lessee of the mine, under the provisions of section sixteen of this act." This does not leave it optional for you to prosecute or not, but makes it your duty, as inspector, to institute prosecutions for the violation of the act. It provides that you *shall* institute prosecutions, and you have no discretion on the subject, but *must* do it, and the owner, lessee, or agent of the mine may be prosecuted for not having the reports made according to law. The prosecution under the sixteenth section is in the usual manner for a misdemeanor, and the penalty is a fine of not less than two nor more than five hundred dollars, at the discretion of the court, in each case.

It is as much your duty to attend to such prosecutions as any other duty you have to perform, and you must give ten days notice of any violation of the act, and if the matter complained of in the notice is not within that time remedied, you have no discretion, but must prosecute the delinquent party, and upon failure, you will be faithless in the performance of your duty as an officer, and liable to the consequences.

Respectfully, your obedient servant,

GEORGE LEAR,
Attorney General.

I would also call your attention to section four of the act which requires for every mine ample means of ventilation, affording one hundred cubic feet per minute for each and every person employed in said mine. In carrying out this provision of the law, it is essential that the mine be ventilated otherwise than by natural ventilation. Every mine should have a ventilating furnace or fan. It is frivolous for mine superintendents to attribute the bad air in their mines to the weather outside. A good supply of fresh air can be circulated around the face of the workings, giving to each person one hundred cubic feet per minute, as by law required, without regard to the weather. The present ventilation act admits of no guessing as to the condition of the air in the mines. The law requires the air to be measured, and to do so the superintendent and mining boss must have the necessary instrument. Each week he can then ascertain if the amount of air circulating in his mine equals that required by law, and if that is properly distributed around the face of the workings, then there can be no just cause of complaint. The superintendent and mining boss, who thoroughly understand their business, will find no difficulty in arranging their work so as to carry out the provisions of the ventilation act.

My attention has been called to mines where locomotives are used in the mines, and the necessity of enforcing the law to have a second opening, which shall be set apart exclusively for purposes of ingress and egress, and shall not be clogged or obstructed with machinery, pumps, or currents of heated air or steam. If the opening is a shaft, it should be fitted with safe and convenient stairs, at an angle of not more than sixty degrees descent, and with landings at easy and convenient distances. All water coming from the surface, or out of the strata in the shaft, should be conducted by rings or otherwise, to be prevented from falling down the shaft, so as to wet persons who are ascending and descending the stairway of the shaft. If the opening is a slope, it should be provided with safe and available traveling-ways.

The recent calamity at the Brookfield mine, in Trumbull county, Ohio, which resulted in the death of seven miners by suffocation, should be a warning to all superintendents of mines of the necessity of complying with the section of the act as quoted above. The superintendents of mines in this district will see that the provisions of this section are strictly carried out, as any negligence on their part will compel me to enforce compliance with the law.

In addressing you through the medium of this circular, it is with the hope that all the requirements of the ventilation act will be complied with, and that in no case shall I be compelled to resort to the powers conferred by the law to enforce its provisions.

Respectfully,

WM. L. RICHARDS,
Mine Inspector, Third District, Pennsylvania.

OPERATOR'S MONTHLY REPORT.

Report from Cambria Iron Company, to William L. Richards, Mine Inspector for the Third Bituminous Coal District of Pennsylvania, for the month of December, 1877. Mine located in Cambria county.

JNO. FULTON, *G. M. E.*

JOHNSTOWN, PA.

NAME OF COLLIERY.	NAME OF OPERATOR.	Character of coal—Bituminous or Semi-Bituminous.	Slope, shaft, or drift.	Pumps—how many.	Number of engines.	Horse power.	Boilers.	No. miners—men.	No. miners—boys.	Other persons.	Total number of persons.	No. of mules inside.	No. of mules outside.	Total production of coal mined per month.
Rolling mill mine, .	C. I. Co., ...	S. B., ...	Drift	. . .	. . .	. . .	. .	161	54	37	252	25	. . .	9,075
Blast furnace mine,	C. I. Co., ...	S. B., ...	Slope.	2	2	50	2	66	29	29	124	17	1	5,065

VENTILATION.

No. of opening.	Inlet, size of.	FIRST WEEK.		SECOND WEEK.		THIRD WEEK.		FOURTH WEEK.		Average velocity of the air current per month at inlet.	Size of Face.	FIRST WEEK.		SECOND WEEK.	
		Velocity of the air current per minute at inlet.	No. of cubic feet passing in per minute at inlet.	Velocity of the air current per minute at inlet.	No. of cubic feet passing in per minute at inlet.	Velocity of the air current at or near face of heading.	No. of cubic feet passing in per minute at inlet.	Velocity of the air current per minute at inlet.	No. of cubic feet passing in per minute at inlet.			Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.
2	90	85	7,650	80	7,200	80	7,200	85	7,650	82½	45	102	4,590	84	3,780
2	88	114	10,032	125	11,000	105	9,240	115	10,120	114¾	96	48	4,608	45	4,320

VENTILATION.—*Continued.*

THIRD WEEK.		FOURTH WEEK.		Average velocity per minute for the month.	Outlet, size of.	FIRST WEEK.		SECOND WEEK.		THIRD WEEK.		FOURTH WEEK.		Average number of feet passing out per month.	No. of headings.	MINE—HOW VENTILATED, FAN OR FURNACE.	
Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near foot of heading.	Velocity of air current at or near face of heading.	No. of cubic feet per minute passing at or near face of heading.			Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	No. of cubic feet per minute passing out.	Velocity of air current per minute passing out.	No. of cubic feet per minute passing out.			Fan, size of.	Furnace, size of.
80	3,600	85	3,825	87¾	38	300	11,400	275	10,450	275	10,450	300	11,400	10,925	2	. . . .	9x5½
39	3,744	40	3,840	43	61	275	16,775	300	18,300	275	16,775	275	16,775	17,156¼	1	. . . .	8x8

Interrogatories.

1st. Have you made a map of your mine? Yes.

2d. How long has your mine been in operation? Rolling mill mine since 1856; blast furnace since 1868.

3d. What are the general characteristics of your colliery? R. M. C. above water level, supplies rolling mill. B. F. C. slope, fifty feet deep, supplies coke ovens for use in blast furnaces, water level gangways, cross headings, room, and pillar.

4th. Mode of working colliery. Gangways at water level. Headings branch from gangways. Pillars withdrawn on completion of a section of the workings.

5th. Capacity of colliery. R. M. C., eight hundred tons per day. B. F. C., three hundred tons per day.

The above was printed from one of the original monthly reports of the Cambria Iron Co., John Fulton, Esq., general mining engineer for the company. Mr. Fulton has promptly made monthly returns to this office, and each return has been properly filled out. My object in printing the above report is to give a sample of a properly filled out operator's monthly report. Over one half of the reports received at this office are improperly filled out, either through negligence or a want of knowledge how it should be done. I trust in the future monthly returns will be promptly made and properly filled out, with a request that superintendents and inside bosses will give the matter a little more of their personal attention.

WM. L. RICHARDS,
Inspector 3d District.

A STATEMENT *of the Names, Power, Capacity and Ventilation of the vania, for the Month*

NAME OF COLLIERY.	NAME OF OPERATOR.	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS.	Slope, shaft, or drift.	Pumps—how many.	Number of engines.	Horse power.
1	2	3	4	5	6	7
Morris Run Coal Mining Co., No. 1 drift, .	Morris Run Coal Mining Co., . .	Semi-bituminous,	Drift,	. .	1	20
Morris Run Coal Mining Co., Nos. 2 and 3 drifts,	Morris Run Coal Mining Co., . .	Semi-bituminous,	Drift,	. .	. . .	. . .
Fall Brook Coal Co., .	G. J. Magee, ...	Semi-bituminous,	Drift,	. .	. . .	. . .
Antrim, ...	Fall Brook Coal Company, . . .	Semi-bituminous,	Drift,	. .	. . .	. . .
Antrim, ...	Fall Brook Coal Company, . . .	Semi-bituminous,	Drift.			
Blossburg Coal Company, No. 1 drift, . .	Blossburg Coal Company, ...	Semi-bituminous,	Drift,	. .	. . .	. . .
Blossburg Coal Company, No. 3 drift, . .	Blossburg Coal Company, ...	Semi-bituminous,	Drift,	. .	. . .	. . .
Blossburg Coal Company, No. 4 drift, . .	Blossburg Coal Company, ...	Semi-bituminous,	Drift,	. .	. . .	. . .
Ocean, ...	Whitehead & Co., ...	Bituminous, ...	Drift,	. .	. . .	. . .
Franklin, ...	Kittanning Coal Company, . . .	Bituminous, ...	Drift,	1	1	15
Mapleton, ...	Berwin, White & Co., ...	Semi-bituminous,	Drift,	. .	. . .	. . .
Excelsior, ...	Fisher Brothers & Miller, ...	Bituminous, ...	Drift,	. .	. . .	. . .
Penn, ...	Penn Coal Company, ...	Semi-bituminous,	Drift,	. .	. . .	. .
Webster, ...	Webster Coal Company, ...	Semi-bituminous,	Drift,	2	. . .	. . .
McIntyre, No. 4 drift, .	McIntyre Coal Company, ...	Semi-bituminous,	Drift,	1	1	6
McIntyre, No. 3 drift, .	McIntyre Coal Company, ...	Semi-bituminous,	Drift,	. .	. . .	. . .
McIntyre, No. 2 drift, .	McIntyre Coal Company, ...	Semi-bituminous,	Drift,	. .	. . .	. . .
Rolling Mill, ...	Cambria Iron Company, ...	Semi-bituminous,	Drift,	. .	. . .	. . .
Blast Furnace, ...	Cambria Iron Company, ...	Semi-bituminous,	Slope,	2	2	50
Benning Shaft, ...	Blair Iron and Coal Company, .	Semi-bituminous,	Shaft,	1	3	108
Snow Shoe Mines, . . .	Bellefonte Snow Shoe R. R. Co.,	Bituminous, ...	Drift,	. .	. . .	. . .
Buffalo Coal Company,	Buffalo Coal Company, ...	Bituminous, ...	Drift,	. .	. . .	. . .
Robertsdale, ...	Rockhill Iron and Coal Company,	Semi-bituminous,	Drift,	1	1	. . .
Mount Hope, ...	Jacob Elias, ...	Bituminous, ...	Drift,	. .	. . .	. . .

respective Collieries in the Third Bituminous Mine District of Pennsyl-
of October, 1877.

								Ventilation.									
										1st week.		2d week.		3d week.		4th week.	
Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10
1	73	51	32	156	22	. .	8,111	2	90	234	21,060	234	2,160	234	2,106	234	21,060
. .	109	77	49	235	18	2	10,433	1	90	428	38,520	428	3,520	409	36,810	409	36,810
. .	36	26	15	77	8	. .	4,152	3	46	175	1,949	160	10,199	140	9,196	140	9,196
. .	234	44	135	413	. .	. .	16,981										
. .	160	82	47	289	25	. .	11,396	2	81	220	9,643	340	14,841	300	13,135	320	10,738
. .	73	27	24	124	16	. .	4,725	3	36	270	9,468	260	9,119	260	9,119	250	8,770
. .	95	45	26	166	13	1	3,077	4	70	580	14,019	330	12,806	570	16,190	300	18,955
. .	170	18	28	216	14	4	16,293	2	66	*							
1	145	15	20	180	17	. .	8,187	3	30	25,000							
. .	50	16	13	79	5	1	4,445	2	42	†							
. .	89	3	8	100	3	3	5,271	2	40	‡							
. .	79	7	19	96	6	3	4,218	. .	. .	‡							
. .	170	30	30	230	11	2	13,211	2	. .	‡							
1	80	4	10	94	2	. .	19,455	2	30	. . . .	5,000	. . .	5,000	. . .	6,000	. . .	6,500
. .	116	10	40	166	13	2	. . . .	3	48	. . . .	6,576	. . .	6,576	. . .	7,872	. . .	7,900
. .	85	7	35	127	13	1	. . . .	4	81	. . . .	11,686	. . .	11,686	. . .	11,388	. . .	15,000
. .	103	100	58	261	22	. .	10,289	3	45	100	9,000	108	9,750	125	11,250	133	12,000
2	40	47	30	117	16	. .	4,894	2	30	150	12,000	162	13,000	187	15,000	600	16,000
6	104	19	44	167	19	. .	6,517	4	140	152	21,280	177	23,780	226	3,164	250	35,000
. .	52	4	22	78	9	4	5,224	. .	35	156	5,161	156	5,161	263	7,582	195	6,441
. .	94	15	18	127	6	. .	5,644	. .	. .	§							
1	149	. .	37	186	17	. .	9,688	. .	. .	§							
. .	30	1	1	32	4	1	2,500	3	35	§							

---

* No measurement given.
† Have just received an instrument. Will report in the future.
‡ No instrument. Will report in the future.
§ No air measurement returned.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.									
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
	Average velocity of air current per month at inlet.	Average velocity of air current per minute per month.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current per minute at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.
	11	12	13	14	15	16	17	18	19	20
Morris Run Coal Mining Company, No. 1 drift, . .	234	. . . .	110	4,400	110	4,400	115	4,600	115	4,600
Morris Run Coal Mining Co., Nos. 2 and 3 drifts, .	419	. . . .	120	4,800	120	4,800	125	5,000	125	5,000
Fall Brook Coal Company,	154	. . . .	98	2,600	98	2,600	98	2,600	98	2,600
Antrim, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Antrim, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Blossburg Coal Company, No. 1 drift, ...	505	. . . .	130	4,343	250	8,400	230	7,728	190	6,384
Blossburg Coal Company, No. 3 drift, ...	260	. . . .	80	2,212	80	2,212	80	2,212	70	1,960
Blossburg Coal Company, No. 4 drift, ...	518	. . . .	390	8,997	370	8,510	400	9,200	430	9,890
Ocean, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Franklin, ...	25,000	. . . .	10,000	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Mapleton, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Excelsior, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Penn, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Webster, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
McIntyre, No. 4 drift, . . .	. . . .	. . . .	. . . .	4,000	. . . .	4,000	. . . .	4,500	. . . .	5,000
McIntyre, No. 3 drift, . . .	. . . .	. . . .	. . . .	3,900	. . . .	3,900	. . . .	4,000	. . . .	6,000
McIntyre, No. 2 drift, . . .	. . . .	. . . .	. . . .	5,615	. . . .	5,616	. . .	6,763	. . . .	8,000
Rolling Mill, ...	234	1,285	106	3,500	117	4,000	139	4,500	151	5,000
Blast Furnace, ...	175	31	22	2,000	26	2,375	35	3,125	39	3,500
Benning Shaft, ...	202	97½	95	3,420	95	3,420	100	3,600	100	3,600
Snow Shoe Mines, ...	6,086	. . . .	87	. . . .	98	. . . .	145	. . . .	135	. . . .
Buffalo Coal Company, . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Robertsdale, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Mount Hope, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .

Collieries in the Third Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.											LOCATION.
		1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
Average velocity per minute for the month.	Outlet—size of—feet.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Average number of feet passing out per month.	
21	22	23	24	25	26	27	28	29	30	31	
112½	93	180	16,740	180	16,740	180	16,740	180	1,670	. . . .	Tioga county.
122½	52½	400	21,000	400	21,000	400	21,000	400	21,000	. . . .	Tioga county.
98	42	330	13,860	310	1,320	325	1,360	312	13,104	1,348	Tioga county.
. . . .	35	400	1,498	400	1,498	400	1,498	400	4,980	. . . .	Tioga county.
. . . .	28	180	5,992	180	5,992	180	5,992	180	5,992	. . . .	Tioga county.
200	113	270	8,924	340	11,691	270	9,232	260	11,348	9,910	Tioga county.
77	40	205	7,994	200	7,800	200	7,800	190	7,412	7,751	Tioga county.
397	75	400	14,630	340	12,447	440	15,948	500	18,208	15,308	Tioga county.
. . . .	22	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . .	Clearfield county.
10,000	42	25,000	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	25,000	Clearfield county.
. . . .	44	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	20	. . . .	5,000	. . . .	5,000	. . . .	7.000	. . . .	7,000	12,598	Lycoming county.
. . . .	20	. . . .	5,000	. . . .	5,000	. . . .	7,526	. . . .	8,668	. . . .	Lycoming county.
. . . .	42	. . . .	11,686	. . . .	11,686	. . . .	13,104	. . . .	15,000	12,869	Lycoming county.
4,250	30	41	8,000	237	9,000	389	11,000	316	12,000	10,000	Cambria county.
2,750	61	262	16,000	269	16,500	286	17,500	295	18,000	17,000	Cambria county.
3,509	350	47	16,450	54	18,900	69	24,150	76	26,600	21,527	Blair county.
. . . .	40	180	7,224	180	7,224	311	12,464	185	7,420	8,583	Centre county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	McKean county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Huntingdon co.
. . . .	42	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Cameron county.

LIST OF ACCIDENTS *occurring in the Mines of the Third Bituminous Coal District of Pennsylvania, with a Synopsis of the Investigations or Inquisitions held, together with the remarks upon the condition of the several Collieries, &c., in said District, for the month of October, 1877.*

NAME.	AGE.	MARRIED OR SINGLE.	Number of orphans.	DATE OF ACCIDENT.	NATURE OF ACCIDENT.	DATE OF INVESTIGATION.	REMARKS.
James Turley, . . .	25	Single, . . .	. . .	October 2, .	Hurt badly, . . .	. . . .	At Ocean colliery, Goss Run, Clearfield county, Whitehead & Co., by a fall of coal.
James Bigley, . . .	40	Married, . .	. . .	October 2, .	Hurt seriously, . .	. . . .	At Ocean colliery, Goss Run, Clearfield county, Whitehead & Co., by a fall of coal.
James Beattie, . . .	42	Single, . . .	. . .	October 16, .	Hurt badly, ...	. . . .	At McIntyre colliery, Ralston, Lycoming county, McIntyre Coal Company, by jumping off a loaded car while in motion.
Daniel McKendrick, .	40	Single, . . .	. . .	October 17, .	Killed, ...	October 17, .	At Daguscahonda colliery, Elk county, Northwestern Mining and Exchange Company, by a fall of stone.
John Foley, ...	. . .	Married, . .	. . .	October 27, .	Collar bone broken,	. . . .	At Cambria Iron Company, Johnstown, Cambria county; how happened, not given.
John Armstrong, . .	24	Single, . . .	. . .	October 29, .	Foot crushed, . . .	. . . .	At Webster colliery, Goss Run, Clearfield county, Webster Coal Company, by being caught under car.

An inquest was held upon the body of Daniel McKendrick, killed at Daguscahonda colliery, October 17, by Esquire Hayes, which resulted in attaching no blame to any person. Death was caused by a slip rock, that fell from the roof in the breast that he was working in.

LIST OF ACCIDENTS *occurring in the Mines of the Third Bituminous Coal District of Pennsylvania, with a Synopsis of the Investigations or Inquisitions held, together with the remarks upon the condition of the several Collieries, &c., in said District, for the month of November, 1877.*

NAME.	AGE.	MARRIED OR SINGLE.	Number of orphans.	DATE OF ACCIDENT.	NATURE OF ACCIDENT.	DATE OF INVESTIGATION.	REMARKS.
A. Shunk, ...	45	Married, . .	. . .	November 3,	Ankle injured, . .	. . . .	By fall of coal, at Ocean colliery, Clearfield county.
John Andrews, . . .	19	Single, . . .	. . .	Novemb'r 28,	Arm broken, . . .	. . . .	Between two mine cars, at Blast Furnace mine, Cambria county.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the vania, for the month*

NAME OF COLLIERY.	NAME OF OPERATOR.	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS.	Slope, shaft, or drift.	Pumps—how many.	Number of engines.	Horse-power.
1	2	3	4	5	6	7
Morris Run Coal Mining Co., Drift No. 2,	Morris Run Coal Mining Co.,	Semi-bituminous,	Drift,	. .	. . .	. .
Morris Run Coal Mining Co., Drift No. 3,	Morris Run Coal Mining Co.,	Semi-bituminous,	Drift,	. .	1	20
Arnot, Drift No. 2,	Blossburg Coal Company,	Semi-bituminous,	Drift,	. .	. . .	. . .
Arnot, Drift No. 3,	Blossburg Coal Company,	Semi-bituminous,	Drift,	. .	. . .	. . .
Arnot, Drift No. 4,	Blossburg Coal Company,	Semi-bituminous,	Drift,	. .	. . .	. . .
Antrim, Drift No. 1,	Fall Brook Coal Company,	Semi-bituminous,	Drift,	. .	. . .	. . .
Antrim, Drift No. 2,	Fall Brook Coal Company,	Semi-bituminous,	Drift.			
Fall Brook Coal Co.,	Fall Brook Coal Company,	Semi-bituminous,	Drift,	. .	. . .	. . .
McIntyre Coal Company, Drift No. 2,	McIntyre Coal Company,	Semi-bituminous,	Drift,	1	1	6
McIntyre Coal Company, Drift No. 3,	McIntyre Coal Company,	Semi-bituminous,	Drift,	. .	. . .	. . .
McIntyre Coal Company, Drift No. 4,	McIntyre Coal Company,	Semi-bituminous,	Drift,	. .	. . .	. . .
Snow Shoe Mines,	Bellefonte and Snow Shoe R. R.,	Bituminous,	Drift,	. .	. .	. . .
Daguscahonda,	North-Western M. and Ex. Co.,	Bituminous,	Drift,	1	. . .	. . .
Lilly Vale Colliery,	William Tiley,	Bituminous,	Drift,	. .	. .	. . .
Bennington Shaft,	Blair Iron and Coal Company,	Semi-bituminous,	Shaft,	1	3	108
Rolling-mill and Blast Furnace,	Cambria Iron Company,	Semi-bituminous,	Drift,	. .	. . .	. . .
Rolling-mill and Blast Furnace,	Cambria Iron Company,	Semi-bituminous,	Slope,	2	2	50
Clermont,	Buffalo Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
St. Mary's Coal Co.,	St. Mary's Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Ocean Colliery,	Whitehead & Co.,	Bituminous,	Drift,	. .	. . .	. . .
Webster Colliery,	Webster Coal Co., Limited,	Semi-bituminous,	Drift,	. .	. . .	. . .
Sterling Colliery,	Robert Hare, Powell & Co.,	Semi-bituminous,	Drift,	. .	1	12
Excelsior Colliery,	Fisher Bro. & Miller,	Bituminous,	Drift,	. .	. .	. . .
Moshannon Colliery,	Moshannon Coal Company,	Bituminous,	Drift,	. .	. . .	. . .
Penn Colliery,	Penn Coal Company,	Semi-bituminous,	Drift,	. .	. . .	. .

respective Collieries in the Third Bituminous Mine District of Pennsyl-
of November, 1877.

								VENTILATION.									
										1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production in tons.	Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	8	9	10
. .	103	71	33	207	29	4	8,684	3	130	248	32,640	237	30,810	251	3,630	249	32,370
1	108	77	49	234	18	2	9,081	2	90	331	29,790	325	29,250	335	30,150	339	30,510
. .	161	82	47	290	25	. .	11,784	2	68	480	15,742	450	15,010	420	14,008	4,200	13,980
. .	73	27	24	124	16	. .	5,367	3	36	250	8,770	240	8,420	230	8,071	250	8,770
. .	96	45	26	167	13	1	6,507	4	65	240	15,172	230	14,541	230	14,541	220	13,911
. .	236	59	121	416	34	. .	13,953	. .	30	200	6,920	225	7,740	250	8,460	235	8,010
. .	33	24	15	72	8	. .	2,992	3	46	205	10,711	180	9,405	190	9,927	240	11,494
1	85	2	35	122	11	1	17,928	2	30	250	8,460	200	7,020	210	7,290	230	7,890
. .	100	10	40	150	13	2	. . . .	2	48	140	8,400	150	8,880	120	7,488	130	7,968
. .	100	10	10	120	4	. .	. . . .	2	78	200	18,252	160	15,210	150	14,430	150	14,4[illegible]0
. .	56	18	23	97	9	4	6,482	7	33	178	5,801	156	5,161	263	8,682	292	9,642
2	80	10	13	103	10	2	4,851	2	20	210	4,200	210	4,200	227	4,540	210	4,200
. .	6	1	2	9	1	. .	222	2	16	340	3,600	350	3,700	320	3,400	330	3,500
6	104	19	44	167	19	. .	6,700	4	140	147	20,600	159	22,300	141	19,800	169	23,700
. .	161	54	39	254	23	. .	11,020	3	135	100	9,000	90	8,100	80	7,200	80	7,200
2	66	29	22	124	16	1	4,481	2	88	133	11,740	130	11,440	120	1,056	125	11,100
. .	94	15	18	127	6	. .	5,857			*							
. .	80	20	14	114	3	4	5,800										
. .	170	13	28	211	14	4	16,355	2	54								
. .	157	32	34	223	10	2	7,658										
1	170	16	21	217	17	. .	15,000										
. .	84	2	3	89	6	. .	4,136	2	54								
. .	40	4	8	52	5	2	3,781										
. .	70	5	20	95	6	3	4,288										

* Will have an anemometer next month.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.									
			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.	
	Average velocity of air current per month at inlet.	Average velocity of air current per minute per month.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current per minute at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of head'g.
	11	12	13	14	15	16	17	18	19	20
Morris Run Coal Mining Company, Drift No. 2, . .	246	. . . .	105	4,200	105	4,200	120	4,800	115	4,600
Morris Run Coal Mining Company, Drift No. 3, .	332	. . . .	120	4,800	115	4,600	150	5,000	120	4,800
Arnot, Drift No. 2, ...	442	. . . .	160	5,334	270	9,160	230	7,728	220	7,330
Arnot, Drift No. 3, ...	243	. . .	90	3,030	80	2,212	100	3,330	80	2,212
Arnot. Drift No. 4, ...	230	. . . .	400	9,200	370	8,510	430	9,890	390	8,997
Antrim, Drift No. 1, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . .	. . . .	. . . .	. . . .	. . . .
Antrim, Drift No. 2, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Fall Brook Coal Company,	199	. . . .	200	5,000	110	2,750	125	3,125	175	4,375
McIntyre Coal Company, Drift No. 2, ...	223	222	150	5,550	160	5,850	140	5,025	140	5,020
McIntyre Coal Company, Drift No. 3, ...	135	135	150	5,550	150	5,550	160	5,550	160	5,860
McIntyre Coal Company, Drift No. 4, ...	165	165	150	9,990	200	7,488	250	7,488	250	9,024
Snow Shoe Mines, ...	222	286	263	. . . .	232	. . . .	321	. . . .	331	. . . .
Daguscahonda, ...	218	. . . .	128	3,490	123	3,690	123	3,690	121	363
Lilly Vale Colliery, ...	. . . .	. . . .	150	1,300	130	1,200	140	1,600	120	1,300
Bennington Shaft, ...	154	97½	95	2,300	95	3,000	100	2,000	100	3,100
Rolling-mill and Blast Furnace, ...	87	45	108	4,860	90	4,050	99	4,455	95	4,295
Rolling-mill and Blast Furnace, ...	127	96	43	4,128	42	4,032	48	4,680	50	4,800
Clermont, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
St. Mary's Coal Company, .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Ocean Colliery, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Webster Colliery, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Sterling Colliery, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Excelsior Colliery, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Moshannon Colliery, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
Penn Colliery, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .

Colliries in the Third Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.											
		1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
Average velocity per minute for the month.	Outlet—size of—feet.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Average number of feet passing out per month.	COUNTY AND PLACE WHERE LOCATED.
21	22	23	24	25	26	27	28	29	30	31	
111	118	180	21,240	175	20,650	175	20,650	180	2,124	. . . .	Tioga county.
120	52½	380	19,550	400	21,000	370	19,425	375	19,688	. . . .	Tioga county.
220	45	340	14,881	330	1,440	300	13,135	290	12,262	13,680	Tioga county.
87½	40	210	8,188	200	7,800	190	7,412	210	8,188	7,897	Tioga county.
397	145	380	13,854	350	12,835	210	14,339	190	12,981	13,502	Tioga county.
. . . .	35	400	1,498	395	14,805	405	15,190	410	15,295	. . . .	Tioga county.
. . . .	28	210	6,804	250	7,896	265	8,316	260	8,176	. . . .	Tioga county.
152	42	290	12,180	275	11,500	320	13,440	280	11,760	12,220	Tioga county.
148	20	280	16,790	270	16,254	270	15,280	270	16,254	16,132	Lycoming county.
155	20	280	16,790	270	16,254	270	15,280	270	16,254	16,132	Lycoming county.
212	42	300	18,536	250	15,792	250	15,792	250	15,792	16,478	Lycoming county.
. . . .	40	379	15,180	282	11,300	379	15,180	428	17,120	14,495	Centre county.
124	. . . .	320	6,480	303	6,135	323	6,545	313	6,338	339	Elk county.
. . . .	25	340	3,600	330	3,500	350	3,700	350	3,600	. . . .	Cambria county.
. . . .	352	47	16,700	51	18,300	45	15,900	24	19,200	17,525	Blair county.
102	38	300	11,400	295	11,210	300	11,400	300	11,400	11,352	Cambria county.
45	61	300	18,300	300	18,300	270	16,470	275	16,775	17,711	Cambria county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	McKean county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Elk county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Clearfield county.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the vania, for the month*

NAME OF COLLIERY.	NAME OF OPERATOR.	CHARACTER OF COAL—BITUMINOUS OR SEMI-BITUMINOUS.	Slope.	Drift.	Shaft.	Fan.	Furnace.	Number of headings.	Pumps—how many.
1	2	3	4	5	6	7	8	9	10
Morris Run Coal Mines, .	Morris Run Coal Mining Co., . .	Semi-bitum.	. .	1	. .	. .	1	12	. .
Morris Run Coal Mines, .	Morris Run Coal Mining Co., . .	Semi-bitum.	. .	1	. .	. .	1	10	. .
Blossburg Coal Mines, .	Blossburg Coal Company, ...	Semi-bitum.	. .	1	. .	. .	1	. .	. .
Blossburg Coal Mines, .	Blossburg Coal Company, ...	Semi-bitum.	. .	1	. .	. .	1	7	. .
Blossburg Coal Mines, .	Blossburg Coal Company, . . .	Semi-bitum.	. .	1	. .	. .	1	. .	. .
Fall Brook Coal Mines, .	Fall Brook Coal Company, . . .	Semi-bitum.	. .	1	. .	. .	1	. .	. .
Antrim Mines, ...	Fall Brook Coal Company, . . .	Semi-bitum.	. .	1	. .	. .	2	. .	. .
Antrim Mines, ...	Fall Brook Coal Company, . . .	Semi-bitum.	. .	1	. .	. .	1	. .	. .
McIntyre Coal Mines, . .	McIntyre Coal Company, ...	Semi-bitum.	. .	1	. .	. .	1	10	1
McIntyre Coal Mines, . .	McIntyre Coal Company, ...	Semi-bitum.	. .	1	.	. .	. .	9	.
McIntyre Coal Mines, . .	McIntyre Coal Company, ...	Semi-bitum.	. .	1	. .	. .	1	6	.
Towanda Coal Mines, . .	Towanda Coal Company, ...	Semi-bitum.	. .	1	. .	. .	1	9	2
Towanda Coal Mines, . .	Towanda Coal Company, ...	Semi-bitum.	. .	1	.	. .	1	. .	. .
Benning Shaft, ...	Blair Iron and Coal Company, .	Semi-bitum.	. .	. .	1	2	. .	5	1
Rolling Mill Mine, ...	Cambria Iron Company, ...	Semi-bitum.	. .	1	. .	. .	1	2	. .
Blast Furnace Mine, . .	Cambria Iron Company, ...	Semi-bitum.	1	. .	. .	. .	1	1	2
Lilly Vale Mines, ...	William Tiley, ...	Bituminous,	. .	1	. .	. .	. .	2	. .
Snow Shoe Mines, ...	Bellefonte and Snow Shoe R. R. Co	Bituminous,	. .	1	. .	. .	. .	3	. .
C. F. B. Powelton Mines,	Robert Hare Powel & Co., . . .	Semi-bitum.	. .	1	. .	. .	. .	4	. .
Franklin Mines, ...	Kittanning Coal Company, . . .	Bituminous,	. .	1	. .	. .	1	11	1
Sterling Colliery, ...	Robert Hare Powel & Co., ...	Semi-bitum.	. .	1	. .	. .	1	5	. .
Sterling Colliery, ...	Robert Hare Powel & Co..	Semi-bitum.	. .	1	. .	. .	1	7	. .
Mapleton Colliery, . . .	Berwind, White & Co., ...	Semi-bitum.	. .	1	. .	. .	1	. .	. .
Reading Colliery, ...	Richard J. Hughs & Co., ...	Bituminous,	. .	1	.	. .	1	4	. .
Goss Run Colliery, . . .	Berwin, White & Co., ...	Semi-bitum.	. .	1	. .	. .	1	. .	. .
Eureka Colliery, ...	Berwin, White & Co., ...	Semi-bitum.	. .	1	. .	. .	1	. .	. .
Ocean Colliery, ...	Whitehead & Co., ...	Bituminous,	. .	1	. .	. .	1	7	. .
Webster Colliery, ...	Webster Coal Co., (limited,) . .	Semi-bitum.	. .	2	. .	. .	2	12	. .
Morrisdale Colliery, . . .	R. B. Wigton, ...	Bituminous,	. .	1	. .	. .	1	. .	. .
Morrisdale Colliery, . . .	R. B. Wigton, ...	Bituminous,	. .	1	. .	. .	. .	. .	. .
Moshannon Mines, . . .	Moshannon Coal Company, . . .	Bituminous,	. .	1	. .	. .	1	. .	. .
Excelsior Colliery, . . .	Fisher Bro. & Miller, ...	Bituminous,	. .	1	. .	. .	1	5	. .
Mount Hope Colliery, . .	Jacob Elias, ...	Bituminous,	. .	1	. .	. .	. .	4	. .
Dagnscahonda Colliery,	North-Western Min'g and Ex. Co	Bituminous,	. .	1	. .	. .	1	6	2
St. Mary's Colliery, . . .	St. Mary's Coal Company, ...	Bituminous,	. .	1	. .	. .	. .	. .	. .
Fisher Colliery, ...	Fisher & Miller, ...	Semi-bitum.	. .	1	. .	. .	. .	5	. .

respective Collieries in the Third Bituminous Mine District of Pennsyl-
of December, 1877.

Number of engines.	Horse-power.	Boilers—how many.	Number of miners—men.	Number of miners—boys.	Other persons.	Total number of persons.	Number of mules inside.	Number of mules outside.	Total production of coal in tons for the month.	VENTILATION.							
												1ST WEEK.		2D WEEK.		3D WEEK.	
										Number of openings.	Inlet—size of—feet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
. .	. .	. .	103	71	33	207	29	4	6,538	3	130	320	45,552	330	46,813	310	44,291
1	20	1	108	77	41	234	18	2	5,586	2	90	200	21,060	210	22,113	220	23,166
. .	. .	. .	155	82	47	284	25	. .	8,333	2	68	370	12,534	390	13,155	360	12,263
. .	. .	. .	74	27	24	125	13	. .	3,652	2	36	320	1,803	300	11,610	300	11,610
. .	. .	. .	96	45	26	167	13	1	3,751	2	65	260	16,433	300	18,955	230	17,604
. .	. .	. .	33	24	15	72	8	. .	3,780	4	48	240	11,534	215	10,536	220	10,690
. .	. .	. .	240	59	121	420	26	. .	12,354	2							
. .	. .	. .	. . .	. .	. . .	. . .	. .	. .	. . . .	. .	48	170	6,732	235	8,811	210	7,290
1	6	1	72	6	32	110	11	1	. . . .	2	30	190	6,720	210	7,290	180	6,420
. .	. .	. .	80	6	40	126	13	2	. . . .	3	48	150	14.430	150	14,430	150	14,430
1	. .	1	120	14	13	147	5	. .	16,592	4	78	150	14,430	150	14,430	150	14.430
2	. .	2	203	56	73	323	. .	11	18,219	2	. . .	180	11,799	130	8,521	165	10,807
. .	. .	. .	. . .	. .	. . .	. . .	. .	. .	. . . .	. .	72	510	15,022	400	14,770	440	15,980
3	108	6	104	20	44	168	20	. .	7,440	4	160	139	22,300	142	22,800	142	22.800
. .	. .	. .	161	54	37	252	25	. .	9,075	2	90	85	7,650	80	7,200	80	7,200
2	50	2	66	29	29	124	17	1	5,065	2	83	114	10,052	125	11,000	105	9,240
. .	. .	. .	8	2	2	12	1	. .	206	2	44	. . .	3,700	. . .	3,800	. . .	3,700
. .	. .	. .	36	10	27	73	10	4	4,617	7	33	253	836	234	7,722	166	5,883
. .	. .	. .	33	8	5	46	3	1	2,549	4	42	*					
1	15	1	135	12	20	167	15	2	8,043	3	30						
1	12	1	90	5	12	107	9	. .	11,250	4	36	. . .	. . . . .	. . .	. . . . .	200	7,200
.	. .	. .	103	17	15	135	8	. .	. . . .	3	40	. . .	. . . . .	. . .	. . . . .	200	8,000
. .	. .	. .	53	17	14	84	5	1	5,768	2	36	. . .	10,120	. . .	10,920	. . .	11,680
. .	. .	. .	35	3	5	43	2	1	2,300	3	81						
. .	. .	. .	43	5	4	52	3	. .	3,565	2							
. .	. .	. .	119	23	30	172	19	. .	8,914	2	49	100	6,713				
. .	. .	. .	140	10	12	162	8	2	11,359	2	61						
. .	. .	. .	150	10	18	178	8	2	2,874	2	. . .	†					
. .	. .	. .	83	38	26	147	10	5	9,775	2	42	. . .	. . . . .	. . .	. . . . .	132	5,544
. .	. .	. .	. . .	. .	. . .	. . .	. .	. .	. . . .	2	42	. .	. . . . .	. . .	. . . . .	175	7,350
. .	. .	. .	50	6	10	65	5	1	2.705	2	56						
. .	. .	. .	90	2	8	100	3	3	4,000	2	44						
1	20	1	30	1	5	36	3	1	2,500	2							
1	25	2	75	10	10	95	10	1	5,163	2							
. .	. .	. .	82	15	8	105	3	3	500	2							
. .	. .	. .	38	8	5	51	2	1	1,213	2	42	140	. . . . .	140	. . . . .	135	

* No anemometer yet.
† Report next month. No anemometer yet.

A STATEMENT *of the Names, Power, Capacity, and Ventilation of the respective*

NAME OF COLLIERY.	VENTILATION.											
	4TH WEEK.			1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.		
	Velocity of air current per minute at inlet.	Number of cubic feet passing in per minute at inlet.	Average air current per mouth at inlet.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current per minute at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Velocity of air current at or near face of heading.	Number of cubic feet per minute passing at or near face of heading.	Average velocity per minute per mouth.
	29	30	31	32	33	34	35	36	37	38	39	40
Morris Run Coal Mines	335	47,443	324	100	4,000	105	4,200	115	4,600	110	4,400	107
Morris Run Coal Mines	200	21,060	207	115	4,600	115	4,600	110	4,400	105	4,200	111
Blossburg Coal Mines,	350	12,102	367	150	5,860	160	6,248	140	5,472	150	5,860	150
Blossburg Coal Mines,	280	10,904	293	90	2,699	110	3,241	110	3,241	90	2,659	100
Blossburg Coal Mines,	290	18,324	282	230	4,394	250	5,860	240	5,427	250	5,860	242
Fall Brook Coal Mines,	260	12,237	232	230	6,900	180	5,400	200	6,000	240	7,200	212
Antrim Mines, ...	. . .	. . . .	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Antrim Mines, ...	240	8,976	795	. . .	. . . .	. . .	. . . .	. . .	. . . .	150	8,880	. . .
McIntyre Coal Mines,	200	7,020	192	120	4,680	120	4,630	100	4,110	170	6,120	127
McIntyre Coal Mines,	130	7,968	125	140	5,250	130	4,980	120	4,980	160	5,850	137
McIntyre Coal Mines,	160	15,210	152	200	7,488	190	7,168	200	7,488	210	7,476	200
Towanda Coal Mines,	185	11,117	165	. . .	. . . .	. . .	. . . .	. .	. . . .	. . .	. . . .	. . .
Towanda Coal Mines,	414	14,880	117	59	2,833	46	2,223	49	2,343	46	2,223	50
Benning Shaft, ...	144	23,120	142	. . .	2,800	. . .	3,000	. . .	3,200	. . .	3,300	. . .
Rolling Mill Mine, . .	85	7,650	82	102	4,590	84	3,780	80	3,600	85	3,825	87
Blast Furnace Mines,	115	1,120	114	48	4,608	45	4,320	39	3,744	40	3,840	43
Lilly Vale Mines, . . .	. . .	3,600	. . .	. . .	1,400	. . .	1,300	. .	1,300	. . .	1,300	. . .
Snow Shoe Mines, . .	156	5,161	6,707	263	7,890	282	8,475	166	4,983	166	4,983	6,332
C. F. B. Powelt'n Mines	. . .	. .	. . .	. .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Franklin Mines, . . .	. . .	. . . .	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Sterling Colliery, . . .	220	7,920	. . .	. . .	. . . .	. . .	. . . .	75	3,455	90	4,230	80
Sterling Colliery, . . .	220	7,920	80	. . .	. . . .	. . .	. . . .	50	3,150	65	4,095	57
Mapleton Colliery, . .	. . .	11,280	. . .	. . .	17,634	. . .	17,896	. . .	18,321	. . .	18,036	. . .
Reading Colliery, . . .	. .	. . . .	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Goss Run Colliery, . .	. . .	. . . .	9,000	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	9,000
Eureka Colliery, . . .	. . .	. . . .	7,447	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Ocean Colliery, ...	300	24,300	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Webster Colliery, .	. . .	. . . .	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. .	. . . .	. . .
Morrisdale Colliery, .	140	5,880	136	. . .	. . . .	. . .	. . . .	. . .	. . .	. . .	. . . .	. . .
Morrisdale Colliery, .	180	7,560	177	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Moshannon Mines, . .	. . .	16,720	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Excelsior Colliery, . .	200	11,232	. . .	.	. . . .	. . .	. . . .	. . .	. . . .	400	15,408	. . .
Mount Hope Colliery,	. . .	. . . .	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Daguscahonda Coll'y,	. . .	. . . .	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
St. Mary's Colliery, .	. . .	. . . .	. . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .
Fisher Colliery, ...	130	. . . .	136	120	. . . .	120	. . . .	113	. . . .	120	. . . .	118

Collieries in the Third Bituminous Mine District of Pennsylvania—Continued.

VENTILATION.										
	1ST WEEK.		2D WEEK.		3D WEEK.		4TH WEEK.			
Outlet—size of—feet.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Velocity of air current per minute at outlet.	Number of cubic feet per minute passing out.	Average number of feet passing out per month.	COUNTY AND PLACE WHERE LOCATED.
41	42	43	44	45	46	47	48	49	50	51
118	400	50,504	400	50,504	350	44,191	360	45,454	. . . .	Morris Run, Tioga county.
53	400	22,470	415	23,233	420	23,488	410	22,979	. . . .	Morris Run, Tioga county.
45	260	11,389	270	11,825	260	1,138	250	10,952	11,388	Arnot, Tioga county.
40	260	10,128	290	11,292	280	10,904	270	10,516	10,710	Arnot, Tioga county.
70	240	15,018	265	18,587	260	17,733	260	17,733	17,267	Arnot, Tioga county.
42	325	14,910	290	13,482	290	13,482	275	12,852	13,681	Fall Brook, Tioga county.
35	390	14,590	400	14,980	410	15,295	430	15,995	407	Antrim, Tioga county.
30	210	7,290	260	8,760	290	8,175	280	9,330	8,388	Antrim, Tioga county.
20	250	15,228	250	15,228	230	14,202	200	15,228	14,971	McIntyre, Lycoming county.
20	250	15,228	250	15,228	230	14,202	200	15,228	14,971	McIntyre, Lycoming county.
42	250	15,792	250	15,792	240	15,232	270	16,856	15,918	McIntyre, Lycoming county.
35	258	9,130	220	7,780	230	8,125	221	8,350	8,346	Barclay, Bradford county.
85	400	17,000	320	13,340	350	14,060	190	13,340	14,410	Barclay, Bradford county.
352	51	17,960	53	18,660	54	19,000	55	19,350	18,745	Bennington, Blair county.
38	300	11,400	275	1,450	275	1,450	300	11,400	19,025	Johnstown, Cambria county.
61	275	16,775	300	18,300	275	16,775	275	16,775	17,156	Johnstown, Cambria county.
25	. . .	3,200	. . .	3,100	. . .	3,300	. . .	3,100	. . . .	Hemlock, Cambria county.
40	428	17,120	331	13,240	166	6,624	166	6,624	1,902	Snow Shoe, Centre county.
. .	. . .	. . . . .	. . .	. . . . .	. .	. . . . .	. . .	. . . . .	. . . .	Powelton, Centre county.
. .	. . .	. . . . .	. .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . . .	Franklin, Clearfield county.
48	. .	. . . . .	. . .	. . . . .	220	11,880	250	13,300	. . . .	Sterling, Clearfield county.
50	. . .	. . . . .	. . .	. . . . .	210	10,500	220	11,000	. . . .	Sterling, Clearfield county.
48	. . .	17,334	. . .	17,874	. . .	18,900	. .	18,321	. . . .	Mapleton, Clearfield county.
. .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . . .	Near Osceola, Clearfield co.
. .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	9,000	Goss Run, Clearfield county.
18	300	7,447	. . .	. . . . .	. . .	. . . . .	. . .	. . . .	7,447	Houtzdale, Clearfield county.
45	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	290	23,050	. . . .	Goss Run, Clearfield county.
.	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . . .	Goss Run, Clearfield county.
35	. . .	. . . . .	. . .	. . . . .	146	5,110	166	5,810	156	Morrisdale, Clearfield county.
28	. . .	. . . . .	. . .	. . . . .	162	4,536	156	4,368	159	Morrisdale, Clearfield county.
. .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	3,000	. . . .	Sobieski, Clearfield county.
32	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	400	14,552	. . . .	Goss Run, Clearfield county.
. .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . . .	Cameron, Cameron county.
. .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . . .	Daguscahonda, Elk county.
. .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . . .	St. Mary's, Elk county.
42	140	. . . . .	130	. . . . .	130	. . . . .	125	. . .	131	Dudley, Huntingdon county.

LIST OF ACCIDENTS *in the Third Bituminous Coal District, for part of the year ending December 31, 1877.*

NAME.	Age.	MARRIED OR SINGLE.	Number of orphans.	DATE OF ACCIDENT.	DATE OF INVESTIGATION.	NAME OF COLLIERY.	NATURE OF ACCIDENT.	CAUSE OF ACCIDENT.	LOCATION.
T. Harris,				August 1,	August 1,	Ocean,	Killed,	By fall of coal, a slip in the coal,	Clearfield county.
Henry Holmond,				August 1,	August 1,	Ocean,	Killed,	By fall of coal,	Clearfield county.
Peter Car,	60	Married,		September 21,		Daguscahonda,	Three ribs broken,	By fall of coal,	Elk county.
James Gormand,		Single,		September 24,	September 24,	Eureka,	Killed,	By fall of coal,	Clearfield county.
John Higgins,		Single,		September 24,		Eureka,	Ankle broken,	By fall of coal,	Clearfield county.
James Bigley,	40	Married,		October 2,		Ocean,	Crushed inwardly,	By fall of coal,	Clearfield county.
James Turley,	25	Single,		October 2,		Ocean,	Limbs bruised,	By fall of coal,	Clearfield county.
James Beattie,	42	Single,		October 16,		McIntyre Coal Co.,	Hurt badly,	By fall of coal,	Lycoming county.
Dan'l McKendrick,	45	Single,		October 17,	October 17,	Daguscahonda,	Killed,	By a slip rock from the top,	Elk county.
G. Shank,	45	Married,		November 3,		Ocean,	Ankle,	By fall of coal,	Clearfield county.
Ed. Rook,				November 24,	November 24,	Eureka,	Killed,	By fall of stone,	Clearfield county.
John Andrews,	19	Single,		November 28,		Blast Furnace Mines,	Arm broken,	Between two mine cars,	Cambria county.
James Richards,	18	Single,		December 3,		Arnot Mines,	Hurt in face,	By fall of roof,	Tioga county.
James Keefe,	46			December 4,		Barclay,	Hurt,	Not given,	Bradford county.

For the information and guidance of those engaged in mining bituminous coal, the following act is subjoined.

W. L. RICHARDS,
Bituminous Mine Inspector, Third District.

AN ACT

Providing the means for securing the health and safety of persons employed in the bituminous coal mines of Pennsylvania.

SECTION 1. *Be it enacted, &c.*, That the owner or agent of every bituminous coal mine or colliery, shall make, or cause to be made, within six months after the passage of this act, an accurate map or plan of the workings of such coal mine or colliery, on a scale not exceeding one hundred feet to the inch, and showing the bearings and distances, which shall be kept for use of the inspector, in the office at the mine of said coal mine or colliery; and said owner or agent shall cause, on or before the tenth day of January in every year, a plan of the progress of the workings of such coal mine during the year past, to be marked on the original map or plan of the said coal mine or colliery, and the inspector shall have the right at all times to have possession of any such map or plan at the mines, to draw a copy therefrom for his own convenience: *Provided*, If the owner or agent of any coal mine shall neglect or refuse, or from any cause fail, for the period of two months after the time prescribed, to furnish the said map or plan as hereby required, or if the inspector shall find, or have reason to believe, that any map or plan of any coal mine furnished in pursuance of the provisions of this act, is materially inaccurate or imperfect, he is hereby authorized to cause a correct map or plan of the actual workings of said coal mine to be made at the expense of the owner thereof, the cost of which shall be recoverable from said owner as other debts are recoverable by law: *Provided*, That if the map or plan which he claimed to be incorrect shall prove to have been correct, then aforesaid expenses shall be paid by the said inspector, and may be recovered from him in like manner.

SECTION 2. It shall not be lawful, after six months from the passage of this act, for the owner or agent of any bituminous coal mine to employ any person at work within said coal mine, or permit any person to be in said coal mine for the purpose of working therein, unless they are in communication with at least two openings, separated by natural strata of not less than one hundred and fifty feet in breadth, if the mine be worked by shaft or slope, and of not less than twenty-four feet, if the mine be worked by drift: *Provided*, If the mine be worked by drift, two openings, inclusive of air shaft, shall only be required, if the air shaft can be used for ingress and egress in case of emergency; and that not more than twenty persons shall be employed in the mine at any one time after the expiration of the six months, until the second opening shall be reached and made available; and in case of furnace ventilation being used before the second opening is reached, the furnace shall not be placed within forty feet of the foot of the shaft, and shall be well secured from danger from fire, by brick or stone walls of sufficient thickness, and the mine while being driven for making and perfecting a second opening; the owner or agent shall provide and maintain a metal tube from the top to the bottom of the slope or shaft, suitably adapted to the free passage of sound, through which conversation may be held between persons at the bottom and at the top of the shaft or slope; also, the ordinary means of signaling to and from the top and bottom of the shaft or slope, and an approved safety catch, and sufficient cover over head on every carriage used for lowering and hoisting persons; and the said owner or agent shall see that sufficient flanges or horns are attached to the sides of the drum of every machine that is used for lowering and hoisting persons in and out of the mine, and also that adequate brakes are attached thereto; the main link attached to the swivel of the wire rope, shall be made of the best quality of iron, and shall be tested by weights or otherwise satisfactory to the inspector of mines of the district, and bridal chains shall be attached to the main link from the cross pieces of the carriage, and no single link chain shall be used for lowering or raising persons into or out of said mine, and not more than six persons shall be lowered or hoisted by the machinery at any one time; and only sober, competent, and experienced engineers shall be employed.

SECTION 3. When a second opening is made, one opening shall be set apart exclusively for purposes of ingress and egress, and shall not be clogged or obstructed with machinery, pumps, or currents of heated air or steam; if the opening is a shaft, it shall be fitted with safe and convenient stairs, at an angle of not more than sixty degrees descent, and with landings at easy and convenient distances; all water coming from the surface, or out of the strata in the shaft, shall be conducted by rings or otherwise, to be prevented from falling down the shaft, so as to wet persons who are ascending and descending the stairway of the shaft; if the opening *in a slope, it shall be provided with safe and available traveling ways.

SECTION 4. The owner or agent of every bituminous coal mine, whether shaft, slope, or drift, shall, within six months after the passage of this act, provide, and thereafter maintain for every such mine, ample means of ventilation, affording one hundred cubic feet per minute for each and every person employed in said mine, which shall be circulated around the main headings and cross headings to an extent that will dilute, carry off, and render harmless the noxious gases generated therein; and all mines generating fire-damp shall be kept free of standing gas, and every working place shall be carefully examined every morning with a safety lamp, by a competent person, before any workmen are allowed to enter.

SECTION 5. In order to better secure the proper ventilation of every coal mine, and promote the health and safety of the persons employed therein, the owner or agent shall employ a competent and practical inside overseer, to be called mining boss, who shall keep a careful watch over the ventilating apparatus, the air-ways, traveling-ways, pumps, and pump timbers, and drainage, and shall see that the miners advance their excavations, all loose coal, slate and rock overhead are carefully secured against falling in or upon the traveling-ways, and that sufficient timber is furnished of suitable lengths and sizes for the places where they are to be used, and placed in the working places of the miners; and it shall also be the duty of the mining boss to measure the air current, at least once a week, at the inlet and outlet, and at or near the face of the headings, and keep a record of such measurements, and report the same to the inspector of his district once in every month; the safety lamps used for examining mines, or which may be used in working therein, shall be furnished by and be the property of the owner of said mines, and shall be in the charge of the agent of such mine; and in all mines generating explosive gases, the doors used in assisting or directing the ventilation of the mine shall be so hung and adjusted that they will close themselves, or be supplied with springs or pulleys, so that they cannot be left standing open; and bore-holes shall be kept not less than twelve feet in advance of the face of every working place, and when necessary on the sides, if the same is driven toward and in dangerous proximity to an abandoned mine or part of a mine suspected of containing inflammable gases, or which is inundated with water.

SECTION 6. Any miners, workmen or other person, who shall intentionally injure any shaft, lamp, instrument, air-course or brettice, or obstruct or throw open air-ways, or carry lighted pipes or matches into places that are worked by safety lamps, or handle or disturb any part of the machinery, or open a door and not close it again, or enter any place of the mine against caution, or disobey any order given in carrying out the provisions of this act, or do any other act whereby the lives or the health of persons, or the security of the mines or the machinery, is endangered, shall be deemed guilty of a misdemeanor, and may be punished in the manner provided in the sixteenth section of this act; all machinery about mines shall be properly fenced off, and the top of each shaft and the entrance of every abandoned slope and air or other shaft shall be securely fenced off; and there shall be cut in the side of every hoisting shaft, at the bottom thereof, a traveling-way sufficiently high and wide to enable persons to pass the shaft

---

* NOTE.—The word "in" is supposed to be a clerical error in transcribing the law; it should be "is."

in going from one side of the mine to the other, without passing over or under the cage or other hoisting apparatus.

Section 7. If any person, firm or corporation is or shall hereafter be seized in his or their own right of coal lands, and it shall not be practicable to comply with the requirements of this act in regard to drainage and ventilation, by means of openings on his or their own land, and the same can be done by means of openings on adjacent lands, he or they may apply by petition to the court of quarter sessions of the proper county, after ten days' notice to the owner or owners, their agent or attorney, setting forth the facts under oath or affirmation, particularly describing the place or places where such opening or openings can be made, and that he or they cannot agree with the owner or owners of the land as to the amount to be paid for the privilege of making such opening or openings; hereupon the said court shall appoint three disinterested and competent citizens of the county to view the grounds designated, and lay out from the point or points mentioned in such petition a passage or passages for air and water, not more than sixteen feet in diameter, by the shortest and most convenient route to the coal of such person, firm or corporation, preferring in all cases an opening through the coal strata where the same is practicable; the said viewers shall at the same time assess the damages to be paid by the petitioner or petitioners to the owner or owners of such land for the privilege of making said openings, which damages shall be fully paid before such opening is made; it shall be the duty of said viewers to give notice by at least three written or printed handbills, posted on the premises at least five days prior to the time of meeting, to attend to the duties of their appointment, setting forth distinctly the time, place and object of their meeting, and also to give personal notice to the parties, their agents and attorneys, where it can be done, and shall, within thirty days after their appointment, make report of their proceedings to said court, stating the amount of damages awarded, accompanied by a map or plan of said openings; and if no appeal be taken to said court within ten days after notice to the opposite party in interest of the filing thereof, it shall be marked confirmed by the clerk, and the petitioner or petitioners may proceed to make said opening or openings; the pay of the viewers and others costs shall be the same as in road cases, and shall be paid by the petitioner or petitioners.

Section 8. As soon as practicable after the passage of this act, the persons exercising the office of president judge of each of the several courts of common pleas in the fifth, tenth, and fourth judicial districts, shall appoint one reputable miner of known experience, and in practice at the time, (in the fifth district the president judge to the court of common pleas, number one, shall make said appointment,) and the Governor shall appoint two mining engineers of like repute and experience, and practice at the time, who shall constitute a board of five examiners, whose duty it shall be to inquire into the character and qualifications of candidates for the office of inspector of mines under the provisions of this act; the examiners first appointed in pursuance of this section, shall meet in the city of Pittsburgh, on the fifteenth day of May next, and after being duly organized, having taken and subscribed before any officer authorized to administer the same, the following oath, namely: "We, the undersigned, do solemnly swear (or affirm) that we will perform the duties of examiners of applicants for appointment as inspectors of bituminous coal mines to the best of our abilities, and that in recommending, or rejecting said applicants, we will be governed by the evidence of qualifications to fill the position under the law creating the same, and not by any consideration of political, or other personal favors; that we will certify all whom we may find qualified according to the true intent and meaning of the act, and none others, to the best of our judgments," shall proceed to the examination of those who may present themselves as candidates for said office; and they shall certify to the Governor the names of all such applicants as they shall find competent to fill the office under the provisions of this act, which names, with the certificate and the oath of the examiners, shall be mailed to the Secretary of the Commonwealth, to be filed in his office, and shall be valid when recommended by four of the examining board; the qualifications of candidates for said office of inspector of mines to be inquired into and certified by said examiners, shall be as follows, namely: They shall be citizens of the

United States, of temperate habits, of good repute as men of personal integrity, shall have obtained the age of thirty years, and shall have had at least five years' experience in the workings of the bituminous coal mines of Pennsylvania, and upon the examination they shall give evidence of such theoretical as well as practical knowledge of the working of coal mines, and noxious gases, as will satisfy the examiners of their capability and fitness for the performance of the duties imposed upon inspectors of mines by the provisions of this act; the board of examiners shall, also, at their said meeting divide the bituminous coal counties of the State into three inspection districts, as nearly equal in regard to the labor to be performed as is possible, taking into consideration the number of mines and the extent of territory; at every subsequent calling of the board of examiners this division may be revised as experience may prove to be advisable; the board of examiners shall each receive five dollars per day and all necessary expenses, to be paid out of the State Treasury upon the filing of the certificates of the examining board in the office of the Secretary of the Commonwealth, as hereinbefore provided; the Governor shall, from the names so certified, appoint one person to be inspector of mines for each district, as fixed by the examiners, in pursuance of the act, whose commission shall be for four years, to be computed from the fifteenth day of May next; as often as vacancies occur by death, resignation, or otherwise, in said offices of inspectors of mines, the Governor shall fill the same by appointment for the unexpired term from the names on file in the office of the Secretary of the Commonwealth, until the number shall be exhausted, and whenever this shall occur the Governor shall cause the aforesaid board of examiners to meet, who shall examine persons that may present themselves for the vacant office of inspector in the same manner as herein provided, and the board of examiners shall certify to the Governor one person to be commissioned by him for the office of inspector for the unexpired term; and any vacancies that may occur in the examining board shall be filled in the district where the vacancy occurred; and every four years the Governor shall appoint two mining engineers as before, and shall notify the persons exercising the office of president judge of the courts of common pleas of three of the judicial districts of the State containing bituminous coal mines, selecting them in such order as to allow each district an equal share of such appointments, each to appoint one miner, and the five so appointed shall constitute a new board of examiners, whose duties, term of service, and compensation, and vacancies that may happen, shall be the same as those provided for by this section; and from the names that may be certified by them, the Governor shall appoint the inspectors provided for in this act; nothing in this act shall be construed to prevent the re-appointment of any inspector of bituminous mines; the inspectors of mines shall each receive, for their services, an annual salary of two thousand dollars, to be paid quarterly by the State Treasurer, and they shall each reside in the district for which they shall be appointed; each inspector is hereby authorized to procure such instrument and chemical tests, and stationery, from time to time, as may be necessary to the proper discharge of his duties under this act, at the expense of the State, which shall be paid by the State Treasurer upon accounts duly certified by him and audited by the proper department of the State. All instruments, plans, book memoranda, notes et cetera, pertaining to the office, shall be the property of the State, and shall be delivered to their successors in office.

Section 9. Each inspector of bituminous coal mines shall, before entering upon the discharge of his duties, give bond in the sum of five thousand dollars, with sureties to be approved by the president judge of the district in which he resides, conditioned for the faithful discharge of his duty, and take an oath (or affirmation) to discharge his duties impartially, and with fidelity, to the best of his knowledge and ability.

Section 10. No person who shall act as a manager or agent of any coal mine, or as a mining engineer, or to be interested in operating any coal mine, shall at the same time act as an inspector of coal mines under this act.

Section 11. For any injury to person or property occasioned by any violation of this act, or any willful failure to comply with its provisions by any owner, lessee, or operator of any coal mine or opening, a right of action against the party at fault shall accrue to the party injured for the direct damage sustained thereby; and in any case of loss of life by reason of such violation or willful failure, a right of action against the party at fault shall accrue to the widow and lineal heirs of the person whose life shall be lost, for like recovery of damages for the injury they shall have sustained.

SECTION 12. The inspectors of bituminous coal mines shall each devote the whole of his time to the duties of his office; it shall be his duty to examine the mines in his district as often as possible, to see that all the provisions of this act are observed and strictly carried out; and he shall make a record of all examinations of mines, showing the condition in which he finds them, the number of mines in his district, the number of persons employed in and about each mine, the extent to which the law is obeyed, the progress made in the improvement sought to be secured by the passage of this act, the number of accidents and deaths resulting from injuries received in the mines, and all other facts of public interest concerning the condition and progress of mining in his district, which record shall, on or before the first Monday of each month, together with all matters and things furnished him in accordance with the provisions of this act, be filed in the office of the Secretary of Internal Affairs, to be by him recorded and included in the annual report of his department; he shall also, from the time of his commission, make strict and careful inquiry and examination into the condition of the ventilation and drainage of the mines.

SECTION 13. That the inspectors may be enabled to perform the duties herein imposed upon them, they shall have the right at all times to enter any bituminous coal mine to make examination, or obtain information; they shall notify the owners, lessees, or agents immediately of the discovery of any violations of this act, and of the penalty imposed thereby for such violation, and in case of such notice being disregarded for the space of ten days, they shall institute a prosecution against the owner, owners, agent, or lessee of the mine, under the provisions of section sixteen of this act; in any case, however, where, in the judgment of the inspector of either district, delay may jeopardize life or limb, he shall at once notify the inspectors of the other districts, whereupon they shall at once proceed to the mine or colliery where the danger exists, and examine into the matter, and if, after full investigation thereof, they shall be agreed in the opinion that there is immediate danger, they shall apply, in the name of the Commonwealth, to the court of common pleas of the county in which the mine may be located, for an injunction to suspend all work in and about such mine, or colliery; whereupon said court, if the cause appear to be sufficient, after hearing the parties and their evidence, as in like cases, shall issue their writ to restrain the working of said mine, or colliery, until all cause of danger is removed; and the costs of said proceedings, including the charges of attorney prosecuting said application, shall be borne by the owner of the mine or colliery: *Provided*, That no fee exceeding the sum of twenty-five dollars shall be taxed, in any one case, for the attorney prosecuting such case: *Provided further*, That if said court shall find the cause not sufficient, then the case shall be dismissed, and the cost shall be borne by the inspector instituting the proceedings, or the county, in the discretion of the court.

SECTION 14. Whenever, by reason of any explosion, or other accident, in any bituminous coal mine, or the machinery connected therewith, loss of life or serious personal injury shall occur, it shall be the duty of the person having charge of such mine or colliery to give notice thereof, forthwith, to the inspector of the district, and if any person is killed thereby, to the coroner of the county, who shall give due notice of the inquest to be held; it shall be the duty of the inspector, upon being notified as herein provided, to immediately repair to the scene of the accident, and make such suggestions as may appear necessary to secure the future safety of the men; and if the results of the explosion do not require an investigation by the coroner, he shall proceed to investigate, and ascertain the cause of the explosion, or accident, and make a record thereof, which he shall file as provided for; and to enable him to make the investigation, he shall have power to compel the attendance of persons to testify, and to administer oaths or affirmations; the cost of such investigation shall be paid by the county in which the accident occurred, in the same manner as costs of inquests by the coroners or justices of the peace are paid.

SECTION 15. The court of common pleas of any county in the proper district, upon a petition signed by not less than fifteen reputable citizens, not less than five of whom shall be miners, owners, or lessees of mines, and with the affidavit of one or more of said petitioners attached, setting forth that any inspector of mines neglects his duties, or is incompetent, or that he is guilty of a malfeasance in office, shall issue a citation, in the name of the Commonwealth, to the said inspector to appear, on not less than fifteen days' notice, upon a day fixed before said court, at which time the court shall proceed to inquire into and investigate the allegations of the petitioners; if the court find that the said inspector is neglectful of his duties, or is incompetent to perform the duties of his office, or that he is guilty of malfeasance in office, the court shall certify the same to the Governor, who shall declare the office of said inspector vacant, and proceed, in compliance with the provisions of this act, to supply the vacancy; the costs of said investigation shall, if the charges are sustained, be imposed upon the inspector, but if the charges are not sustained, they shall be imposed upon the petitioners.

SECTION 16. The neglect or refusal to perform the duties required to be performed by any section of this act, by the parties therein required to perform them, or the violation of any of the provisions hereof, shall be deemed a misdemeanor, and shall, upon conviction, be punished by fine of not less than two hundred dollars, nor not exceeding five hundred dollars, at the discretion of the court; and all penalties recovered under this act shall be paid into the Treasury of the State.

SECTION 17. The inspectors shall exercise a sound discretion in the enforcement of the provisions of this act: and should the operator or owner be dissatisfied with any decision at which the inspector may arrive, it shall and may be lawful for such operator or owner to apply by petition to the court of quarter sessions of the county wherein such mine is located, and said court shall thereupon appoint three reputable, competent, and disinterested persons, whose duty it shall be forthwith to examine such mines, and hear the proofs and allegations of the inspectors and operator or owner, and make such report under oath to court of the facts as they exist, together with their opinion thereon; and if said report sustains the decisions of the inspector, then the party making application to court shall pay the costs of such proceeding, and if the report is against such decision, then the inspector shall pay the costs. unless the court order otherwise; the report of the said board shall become absolute unless exceptions thereto shall be filed within ten days after notice of the filing thereof to the owner, operator, or inspector, and if exceptions are filed, the court shall hear and determine the same, and the decision shall be final and conclusive.

SECTION 18. The provisions of this act shall not apply to any mine where ten men or a less number are employed, or to any mine which does not generate fire-damp, black-damp, or other dangerous or noxious gases.

SECTION 19. All laws or parts of laws inconsistent with any of the provisions of this act are hereby repealed.

APPROVED—The 18th day of April, A. D. 1877.

J. F. HARTRANFT.

ANTHRACITE COAL STATISTICS.

SCHUYLKILL COUNTY.

Keely's Run.

Thomas Coal Company, Shenandoah, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, 89,852 tons; $162,115 21.

Whole number of persons employed, 407.

Amount of capital employed in business, $203,191 70.

Amount paid annually for wages of employés, $81,579 50.

Amount paid for materials used in business, $25,662 04.

In the classification made below, the number of each class employed, with the daily wages paid each class, and the time worked during the year:

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract,	32	. . .	$1 95 to $2 50		10 hours per day.	157 days in 1876.	
Miners on wages,	68	. . .	1 95				
Outside laborers,	68	. . .	1 35				
Inside laborers,	59	8	1 65	$0 75			
Outside mechanics,	4	. . .	1 35				
Inside mechanics,	1	. . .	2 00 to 2 50				
Outside mule drivers,	1	2	1 50	1 00			
Inside mule drivers,	3	5	1 65	1 33			
Dumpers,	2	2	1 35				
Slate pickers,	55	99	1 00 to 1 33	25c. to 75c.			
Mining overseers,	5	. . .	2 70 to 4 00				
Clerks,	1	. . .	1 60				

Characteristics of Colliery.—The Thomas Coal Company's colliery consists of two breakers. No. 1, erected in 1869, capacity 625 tons per day, and No. 2, erected in 1875, capacity 375 tons per day.

The slope to No. 1 is on the Mammoth vein, and extends about 125 yards below the surface, with an average inclination of about 45 degrees, with a tunnel from No. 1 gangway, cutting the Skidmore and Buck Mountain veins.

The slope No. 2 is also on the Mammoth vein, and extends about 225 yards below the surface, with an average inclination of about 45 degrees, with a tunnel from No. 2 gangway to Skidmore vein, with a run of veins of about two and one half miles.

All the necessary engines, machinery, pumps, &c., of the best and most approved designs and construction, are in use at the two breakers. In consequence of the great depression in trade, the collieries have not been run to their full capacity.

Swatara Collieries, North and South.

J. C. White, Swatara, Schuylkill county.

Mine located in Swatara, Schuylkill county.

Quantity of tons and value in dollars of annual product, 18,776 tons; $41,307.

Whole number of persons employed, 120.

Amount paid annually for wages of employés, $26,009.

Amount paid for materials used in business, no record preserved.

REMARKS.—From irregularities and losses of time of the past season, it is impossible to get a fair estimate of the wages per diem, as the majority of mining work is done by contract, and record of the time not kept. The losses of the business also prevent making an estimate of the capital therein.

J. C. WHITE.
Per S

Ellsworth Colliery.

John R. Davis, Minersville, Schuylkill county.

Superintendent's address, Broad Mountain P. O., Schuylkill county.

Mine located in New Castle township, Schuylkill county.

Whole number of persons employed 41.

Amount of capital employed in business, $15,000.

Amount paid annually for wages of employés, about $15,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	10	...	$2 25	...	8		
Miners on wages,	2	...	1 83	...	8		
Outside laborers,	5	...	1 50	...	10		
Inside laborers,	7	...	1 66	...	9½		
Outside mechanics, (blacksmith,)	1	...	2 00	...	10		
Inside mule drivers,	...	2	...	75c.	9½		
Slate-pickers,	...	10	...	60c.	10		
Mining overseers,	2	...	3 50	...	10		
Engineers,	2	...	2 00	...	10		

REMARKS.—The breaker at this colliery was destroyed by fire on the 26th day of November, 1876. It is at the present time (April 19, 1877) being rebuilt, and is expected to be ready for use by the 15th of May.

JOHN H. DAVIS,
Superintendent.

Kalma.

Phillips & Sheafer, Orwin, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, 61,133$\frac{14}{100}$ tons; estimated value, $2 per ton—average.

Whole number of persons employed, 234.

Amount of capital employed in business, $30,000—cash working capital, independent of all the improvements.

Amount paid annually for wages of employés, during the year, $70,000.

Amount paid for materials used in business: Monthly average, $2,000—$24,000 for the year.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	63	. . .	$2 64	. . .	8	190	
Miners on wages, . .	4	. . .	1 83	. . .	10	190	
Outside laborers, . .	31	. . .	1 36	. . .	10	190	
Inside laborers, . .	45	. . .	1 62	. . .	10	190	
Outside mechanics, .	5	. . .	1 94	. . .	10	190	
Inside mechanics, .	2	. . .	2 11	. . .	10	190	
Outside mule drivers,	. . .	4	. . .	83	10	190	
Inside mule drivers,	4	2	1 25	94	10	190	
Door boys, ...	. . .	4	. . .	66	10	190	
Dumpers, ...	2	. . .	1 41	. . .	10	190	
Slate-pickers, . . .	4	61	1 11	53	10	190	
Mining overseers, .	3	. . .	4 09	. . .	10	190	

THOMAS H. PHILLIPS.

Cuyler.

S. M. Heaton & Co., Raven Run, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of annual product, 54,874$\frac{03}{20}$ tons; estimated $109,748.

Whole number of persons employed, 215.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	75	. . .	$2 25				
Outside laborers, . .	44	. . .	1 50				
Inside laborers, . .	15	. . .	1 80				
Outside mechanics, .	6	. . .	1 75				
Inside mechanics, .	1	. . .	1 75	. . .	. . .	145½	
Outside mule drivers,	3	. . .	1 50	$1 37½	10		
Inside mule drivers,	10	. . .	. . .	1 50			
Slate-pickers, . . .	59	. . .	. . .	62½			
Mining overseers, .	2	. . .	3 50				

St. Nicholas.

St. Nicholas Coal Company, St. Nicholas, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of annual product, 151,876 tons; $122,452 04.

Whole number of persons employed, 173.

Amount of capital employed in business, $300,000.

Amount paid annually for wages of employés, $62,564 60.

Amount paid for materials used in business, $24,374 44.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	45	. . .	$2 00	. . .	8	168	
Miners on wages, . .	8	. . .	1 97	. . .	10	168	
Outside laborers, . .	28	. . .	1 37	. . .	10	188	
Inside laborers, . .	18	. . .	1 57	. . .	10	188	
Outside mechanics, .	5	. . .	2 15	. . .	10	188	
Inside mechanics, .	1	. . .	2 33	. . .	10	188	
Outside mule drivers,	. . .	5	. . .	118	10	188	
Inside mule drivers,	3	. . .	1 57	. . .	10	188	
Weigh-master, Fireman, ...	2	. . .	1 93	. . .	. . .	188	
Dumpers, ...	1	. . .	1 68	. . .	. . .	188	
Slate-pickers, . . .	. . .	56	. . .	66	. . .	188	
Mining overseers, .	1						

W. F. DONALDSON,
President.

"Lawrence."

Lawrence, Merkel & Co., Minersville, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, 79,823.11 tons; value, $192,458 57.

Whole number of persons employed, 260.

Amount of capital employed in business, $117,000.

Amount paid annually for wages of employés, $97,409 56.

Amount paid for materials used in business, $30,650 43.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	70	...	...	...	...	...	No record kept of their time.
Miners on wages,	8	...	$2 02½	...	10	184	No correct average can be made of the wages of men and boys, as they change every month, according to the price of coal. The amount is estimated as near as can be.
Outside laborers,	26	...	1 64⅓	...	10	184	
Inside laborers,	34	...	1 79½	...	10	184	
Outside mechanics,	6	...	2 31	...	10	184	
Firemen,	6	...	2 21$\frac{3}{7}$	...	10	184	
Shipper,	1	...	2 25	...	10	184	
Inside mule drivers,	2	6	1 72½	$1 34	10	184	
Watchman,	1	...	1 28$\frac{4}{7}$	...	10	184	
Dumpers,	1	...	1 50	...	10	184	
Slate-pickers,	...	90	...	87⅙	10	184	
Mining overseers,	3	...	4 11	...	...	184	
Hoisting and pumping engineers,	6	...	2 91¼	...	12	184	

LAWRENCE, MERKEL & CO.

Middle Lehigh.

Middle Lehigh Coal Company, Mauch Chunk, Carbon county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of actual product, 120,141$\frac{07}{20}$ tons; $227,307 43.

Whole number of persons employed, 430, about.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, $124,342 04.

Amount paid for materials used in business, $24,476 22.

REMARKS. — There has been such variations in wages, that it is almost impossible to give any average, and the same is true of the classification and the number of men and boys employed. The colliery was worked only 154½ days, being idle the balance of the year.

T. FRANK WALTER,
President.

Bear Run.

Wiggan & Triebels, Mahanoy City, Schuylkill county.

Mine located in Mahanoy township, Schuylkill county.

Quantity of tons and value in dollars of annual product, $63,334\frac{3}{20}$ tons; $152,341 90.

Whole number of persons employed, 179.

Amount of capital employed in business, $150,000.

Amount paid annually for wages of employés, $72,680 41 at colliery; $2,200 at Philadelphia office.

Amount paid for materials used in business, $25,041 77.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	37	. . .	$2 44	. . .	7 to 8	240	
Four skippers, . . .	4	. . .	2 50	. . .	7 to 8	240	
Gangway laborers, .	12	. . .	1 95	. . .	7 to 8	240	
Outside laborers, . .	17	. . .	1 54	. . .	10	173	
Outside bosses over boys, ...	2	. . .	1 67	. . .	10	173	
Inside laborers, . . .	30	2	1 85	$0 79	10	173	
Outside mechanics, .	4	. . .	2 25	. . .	10	300	
Breaker engineer, .	1	. . .	2 25	. . .	10	279½	
Jigman	1	. . .	2 25	. . .	10	280½	
Outside mule drivers,	. . .	4	. . . .	1 21	10	173	
Inside mule drivers,	2	2	1 70	1 44	10	173	
Firemen, ...	2	. . .	2 00	. . .	. . .	. . .	Full time.
Shipping coal, . . .	1	. . .	2 17	. . .	10	279	
Dumpers, ...	2	. . .	1 50	. . .	10	173	
Slate pickers, ...	4	44	1 33	93	10	173	
Outside boss, ...	1	. . .	$80 per mo.	. . .	. . .	. . .	Full time.
Mining overseers, inside boss, ...	1	. . .	125 do.				
Hoisting engineer, .	1	. . .	55 do.				
Pumping engineer, .	1	. . .	55 do.				
Stableman outside, .	1	. . .	50 do.	. . .	. . .	. . .	Also free house and coal.
Stableman inside, .	1	. . .	$13 50 per w'k	. . .	. . .	300	

REMARKS.—To get some kind of average for the miners, I have taken the months of April and October. We have had more miners working during 1876, but they were those that worked a short time then.

The reason for the difference of days worked, 240 and 173, is when the mines and breaker worked only a ¼, ½, or ¾ of a day, the miners could make a full day.

We have had during last year, quite a number of men that were continually changing, which are not included in the number of men employed, but their wages are included in article 8th.

None of the articles in the above report include what has been paid for insurance, taxes, rents, royalty on coal, tolls, and freight on coal.

PHILIP CONRAD, *Superintendent.*

York Farm.

Job Rich, Pottsville, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, 1,256 tons; $2,826.

Whole number of persons employed, 5.

Amount of capital employed in business, working capital, $500.

Amount paid annually for wages of employés, $1,946.

Amount paid for materials used in business, $250.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on wages, . .	2	. . .	$6 66⅔	. . .	10	11 mos.	
Outside laborers, . .	1	. . .	1 16⅔				
Inside laborers, . .	1	. . .	1 33⅓				
Outside mechanics, .	1	. . .	1 66⅔				

JOB RICH,
Per H. J. R.

Phœnix Park, No. 3.

John E. Lloyd and A. B. Gorgas, (firm of Lloyd & Co.,) Minersville, Schuylkill county.

Mine located in Branch township, Schuylkill county.

Whole number of persons employed, 163.

Amount of capital employed in business, $30,000; at least, outside of capital invested by Philadelphia and Reading Coal and Iron Company, owners of buildings and machinery.

Amount paid annually for wages of employés, about $30,000.

Amount paid for materials used in business, about $1,000 per month, when working full.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	80	. . .	$2 25	. . . . . .	9	139	
Outside laborers, . .	12	. . .	1 50	. . . . . .	10	139	
Inside laborers, . .	21	. . .	1 65	. . . . . .	10		
Outside mechanics, .	4	. . .	2 33	. . . . . .	10	200	
Inside mechanics, . .	1	. . .	2 25	. . . . . .	12	365	
Outside mule drivers,	2	. . .	. . .	$0 75	10	139	
Inside mule drivers,	8	. . .	. . .	1 00	10	139	
Dumpers, ...	2	. . .	1 67	. . . . . .	10½		
Slate-pickers, ...	. . .	30	. . .	$3 25 p. w.	10	139	
Mining overseers, .	2						
Civil engineers, . . .	1						

CHARACTERISTICS OF COLLIERY.—This colliery is known as Phœnix Park, No. 3, working the Big Diamond vein, a very deep red ash, and is located on lands of the Philadelphia & Reading Coal and Iron Company, the buildings and machinery being the property of said company.

This colliery went into operation in 1874, and probably not over sixty thousand tons of coal has been shipped from it up to 1st of January last. The coal is known in market as the "Wolf Creek Diamond," and is commonly used for domestic purposes, on account of its free burning qualities.

LLOYD & CO.

Staffordshire.

Jones, Ward & Oliver, Mahanoy City, Schuylkill county.

Mine located in Mahanoy City, Schuylkill county.

Quantity of tons and value in dollars of annual product, 8,035.02 tons; $11,441 30.

Whole number of persons employed, 33.

Amount of capital employed in business, $12,000.

Amount paid annually for wages of employés, $9,718.

Amount paid for materials used in business, $3,655 73.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	13	. . .	$2 25	. . .	10	152½	This is what the colliery worked; but most of our employés worked when the colliery did not.
Outside laborers, . .	2	. . .	1 75				
Inside laborers, . .	2	. . .	2 00				
Outside mechanics, .	1	. . .	2 50				
Inside mule drivers,	. . .	2	. . .	$1 25			
Dumpers, ...	2	. . .	. . .	1 50			
Slate pickers, ...	. . .	5	. . .	75c.			
Tunnel drivers, . . .	6	. . .	3 00				

JONES, WARD & CO.

Wolf Creek Diamond Colliery.

John W. Davis, Minersville, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, 25,000 tons; at average $2 per ton, $50,000.

Whole number of persons employed, men, 93; boys, 14.

Amount of capital employed in business, $20,000.

Amount paid annually for wages of employes, average $1 50 per ton on 25,000 tons, $37,500.

Amount paid for materials used in business, rails, $500; timber, $1,500; oil, &c., $350.

Miners on contract, 69; miners on wages, 5; outside laborers, 6; inside laborers, 6; outside mechanics, 1; outside mule drivers, 1; inside mule drivers, 4; dumpers, 1; slate pickers, 12; mining overseers, 3; daily wages paid men, average $1 50; daily wages paid boys, 62½ cents; hours worked per day, 10; days in operation during year, 180.

REMARKS.—The veins now worked are the Little Diamond; average thickness, 2½ feet pure and solid coal of No. 1 red ash. Also, the orchard vein, averaging 3 feet in thickness; good coal; red ash. The workings are all above water level, consequently giving a good advantage for cheap mining. The supposition is, that those veins will yield for the next ten years, an annual tonnage of 20,000 tons.

The coal-breaker capacity is 200 tons per day, and well arranged for steady business.

JOHN W. DAVIS.

Gilberton Coal Company.

Gilberton Coal Company, Gilberton, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, 82,691.55 tons; value, about $180,000 at Schuylkill Haven, Pa.

Whole number of persons employed, 229.

Amount paid annually for wages of employés, $74,473 18.

Amount paid for materials used in business, $25,317 17.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	12	. . .	$2 70	. . .	9	191	
Miners on wages, . .	21	. . .	2 01	. . .	10	250	
Outside laborers, . .	31	. . .	1 42	. . .	10	218½	
Inside laborers, . .	35	. . .	1 61	. . .	10	218½	
Outside mechanics, .	12	. . .	2 07	. . .	10	310	
Inside mechanics, .	4	. . .	2 07	. . .	10	310	
Outside mule drivers,	. . .	5	. . .	$1 15	10	218½	
Inside mule drivers,	3	6	1 61	1 33	10	218½	
Dumpers, ...	2	. . .	1 42	. . .	10	218½	
Slate pickers, ...	33	53	90	73	10	218½	
Mining overseers, .	5	. . .	4 56	. . .	12	310	
Hostler, ...	1	. . .	2 30	. . .	12	356	
Door boys, ...	. . .	6	. . .	73	10	218½	

H. L. WILLIAMS,
Superintendent.

Foresters.

G. King, Tyler & Co., Mahanoy City, Schuylkill county, Pa.

Mine located in Mahanoy City, Schuylkill county.

Quantity of tons, and value in dollars, of annual product, 6,029 tons; value, $11,033.

Whole number of persons employed, 26.

Amount paid annually for wages of employés, $5,560 68.

Amount paid for materials used in business, $2,736 19.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	6	. . .	$2 16⅔	. . .	10	149	
Inside laborers, . .	7	. . .	1 66⅔	. . .	10	149	
Outside mechanics, .	1	. . .	2 16⅔	. . .	11	149	
Outside mule drivers.	2	. . .	2 00	. . .	11	149	
Inside mule drivers,	. . .	2	. . .	$1 00	11	149	
Dumpers, ...	2	. . .	1 50	. . .	11	149	
Slate pickers, ...	. . .	6	. . .	75	11	149	

REMARKS.—Our colliery is small, with no railroad facilities. We haul the coal to market with teams. The statement made is as near correct as we can give it, as we employ no clerks to keep our accounts. The coal trade is in a very depressed state, with very small demand for our product.

KING, TYLER & CO.

Diamond Colliery.

W. H. Whitaker & Co., Philadelphia, Philadelphia county.

Mine located in Forestville, Schuylkill county.

Quantity of tons and value in dollars of annual product, about 30,000; present value, about $60,000.

Whole number of persons employed, about 200.

Amount of capital employed in business: Cost to put the colliery in running order, about $100,000.

Amount paid annually for wages of employés, about $100,000.

Amount paid for materials used in business, about $12,000.

Miners on contract: Number of men, 50; number of boys, 30; daily wages paid men, $1 50; daily wages paid boys, $0 75; hours worked per day, 10; days in operation during year, 180.

Miners on wages, 30; outside laborers, 25; inside laborers, 40; outside mechanics, 10; inside mechanics, 5; outside mule drivers, 2; inside mule drivers, 3; dumpers, 12; slate-pickers, 20; mining overseers, 2.

W. H. WHITAKER & CO.

Cambridge Colliery.

Cambridge Coal Company, Shenandoah, Schuylkill county.

Mine located in Shenandoah, Schuylkill county.

Quantity of tons and value in dollars of annual product, 4,200 tons; estimated $84,000.

Whole number of persons employed, 24.

Amount of capital employed in business, $6,000.

Amount paid annually for wages of employés, $5,387 40.

Amount paid for materials used in business, $500. All timber has been used off tract.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid men.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	4	. . .	$2 50	. . .	10		
Outside laborers, . .	2	. . .	1 35	. . .	10		
Inside laborers, . .	7	. . .	1 83	. . .	10		
Outside mechanics, .	1	. . .	2 00	. . .	10		
Outside mule drivers,	1	. . .	1 67	. . .	10		
Inside mule-drivers,	1	. . .	1 67	. . .	10		
Dumpers, ...	1	. . .	. . .	. . .	10		
Slate-pickers, . . .	. . .	4	. . .	$ *51	10		*Average.
Chute boss	1	. . .	1 67				
Teamsters on contr't,	2	. . .	†5 00				†Average.

Remarks.—The colliery is in much the same condition as last reported. There has been one new screen put in breaker, at a cost of about $400; also, two more mules used, together with two more wagons and one dumper. This colliery is capable of shipping at least twice as much to market as it did last year, if trade had been better.

JOS. HINKS.

Shenandoah City.

James Neill, trustee, Shenandoah, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, 48,999.06 tons; $180,551 94.

Whole number of persons employed, 275.

Amount of capital employed in business, about $300,000.

Amount paid annually for wages of employés, $50,360 04.

Amount paid for materials used in business, $23,861 58.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	65	. . .	$3 24		About 8 hours.	Average 9 days per month.	
Miners on wages, . .	35	1	1 95				
Outside laborers, . .	25	6	1 56	$1 00			
Inside laborers, . .	55	7	1 65	67			
Mechanics, ...	6	. . .	2 08				
Outside mule drivers,	6	. . .	1 20				
Inside mule drivers,	9	. . .	1 65				
Weigh master, *							
Slate pickers, ...	5	60	1 36	65			
Mining overseers, .	3	. . .	$96 per mo.				
Engineers & firemen,	6 5	. . . . . .	1 75 1 54				
Outside overseer, . .	1	. . .	$90 per mo.				
Superintendent, . .	1	. . .	$2,500 per y'r				

* Coal weighed by Reading Railroad Company.

REMARKS.—This colliery was worked during the year at a loss of about $12,000, not including interest on capital invested. There are in use about 140 drift wagons, at a cost of about $80 each; also, about thirty mules and horses, worth about $4,500. The steam engines, representing about 340 horse-power, number 9, supplied with power by 12 cylinder boilers, 30 ft. by 34 inches.

A percentage was deducted from, or added to the wages of miners and inside laborers, at the rate of $\frac{1}{3}$ of the advance or decline of coal, from $2 50 per ton, the basis. During the last four months of the year, the percentage applied to all. This percentage was decided by a board of arbitration. The miners, receiving contracts at $3 24 per day, were obliged to furnish materials, such as powder, oil, &c. They also frequently worked at several different kinds of work during the month.

The value in dollars of annual product, $180,000, includes all freights and transportation between production and consumer, or tide, commissions, &c.

The coal trade is exceedingly depressed, working at a loss. The real cause of the depression dates back to war times. Having such inflated prices as $6 00 to $8 00 per ton for coal, and capital being plenty, coal was opened faster than it was needed. The war being ended, labor was plentiful, owing to the great facilities possessed by bounty-jumpers for hiding in the mountains and mines. Capital seeking investments, rushed in here, this caused more coal to be opened than consumption warranted, the war having ceased. But the iron trade, which is the great consumer of coal, being in flourishing condition for the five or six following years, thus keeping prices up, and labor troubles diminishing the supply—supply and demand were equal until 1874, when iron fell and labor became more uncertain. Bad legislation, the demand for coal lessened, the demonetization of silver, the curtailing of the circulating medium, and the shrinkage of values, have brought us to ruin.

J. O. ROADS,
Superintendent.

Glendon Colliery.

J. C. Hayden & Co., Mahanoy City, Schuylkill county.

Quantity of tons, and value in dollars, of annual product: Estimated capacity, 75,000 tons; valued at (estimated) $150,000.

Whole number of persons employed, 225.

Amount of capital employed in business, about $50,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	50	. . .	$1 50	. . .	10 hours.	This colliery was operated by present parties for months of Nov. and Dec. Worked 30 days in these two months.	
Miners on wages, . .	2	. . .	1 50	. . .			
Outside laborers, . .	19	1	1 15	. . .			
Inside laborers, . .	25	*5	1 33	. . .			* Doortenders.
Outside mechanics, .	6	. . .	1 80	. . .			
Inside mechanics, .	2	. . .	1 80	. . .			
Outside mule drivers,	. . .	5	. . .	$0 80			Boys wages range from 30 cents to $1 per day.
Inside mule drivers,	3	3	1 33	1 00			
Slate pickers, ...	5	35	80	30 to 65			
Mining overseers, .	2	. . .	. . .	. . .			

CHARACTERISTICS OF COLLIERY.—This colliery is on lands of Delano Land Company, near Mahanoy City. 1 slope, 250 yards deep, on 7 feet vein. 1 breaker.

Veins of coal worked are, 16 feet, or Buck Mountain; 7 feet vein and Skidmore.

The colliery came into possession of present parties in latter part of October, and was worked in last year only parts of months of November and December. Hence this report is incomplete. The colliery was worked previously by J. B. Boylan.

Trade very dull, and prices of coal very low, owing to general depression of business.

J. C. HAYDEN & CO.,
Per T. N. PATTERSON,
Superintendent.

Koh-i-noor.

Richard Heckscher & Co., Shenandoah, Schuylkill county.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars, of annual product in 1876, 85,077.01 tons; $106,250.

Whole number of persons employed, 302.

Amount of capital employed in business, $300,000.

Amount paid annually for wages of employés: in 1876, $80,823 15.

Amount paid for materials used in business, $11,761 50.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	68	. . .	$2 60		8	137	
Miners on wages, . .	8	. . .	1 90	. . .	9	160	
Outside laborers, . .	20	. . .	1 55	. . .	10	137	
Inside laborers, . .	72	. . .	1 72	. .	9	137	
Outside mechanics, .	11	. . .	2 15	. .	10	240	
Inside mechanics, .	2	. . .	2 00	. . .	10	240	
Outside mule drivers,	3	1	1 50	$1 25	10	137	
Inside mule drivers,	8	6	1 72	1 30	9	137	
Ticket boss, ...	1	. .	1 50	. . .	10	137	
Platform men, . . .	5	. .	1 60	. . .	10	137	
Slate pickers, ...	30	60	1 00	70	10	137	
Mining overseers, .	2	. . .	4 00	. . .	10	300	
Door boys, ...	. . .	5	. . .	80	9	137	

REMARKS.—The remarks made in giving statistics for 1876, concerning characteristics of colliery, will apply for 1877 as well. Since last year, no extensive improvements or alterations have been made, the colliery having been thoroughly opened and equipped. It should be stated at what point the "value of the annual product" is desired, whether in cars at breaker, at the shipping point, or at tide. It is given approximately here, in cars at breaker.

Some of the wages can be approximated, only the broken time, percentage, change of men and of work, making it very difficult to strike an average. The statistics have been prepared with some care, but cannot be called absolutely reliable. A strike at our colliery in October and November, materially reduced tonnage, and "days in operation." During that time, most of our employés were working elsewhere.

RICHARD HECKSCHER & CO.

Breaker, No. 1.

Lehigh and Wilkesbarre Coal Company, Audenried, Carbon county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, 92,657$\frac{3}{20}$ tons; estimated, $185,314.

Whole number of persons employed, 285 men and boys.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	59	. . .	$1 75 to $4 00	. . . .	10	202$\frac{1}{10}$	
Miners on wages, . .	2	. . .	1 83	. . . .	10		
Outside laborers and firemen, ...	21	8	1 20 to 1 60	$0 80 to $1 15	10		
Inside laborers, . .	66	3	1 58 to 1 83	1 20 to 1 25	10		
Outside mechanics and engineers, . .	12	. . .	1 75 to 2 25	. . . .	10		
Inside mechanics and engineers, . .	6	. . .	2 00 to 2 40	. . . .	10		
Outside mule drivers,	. . .	3	. . . .	1 10 to 1 25	10		
Inside mule drivers,	7	10	1 58	80 to 1 35	10		
State-pickers, . . .	9	55	1 00	35 to 75	10		
Mining overseers, . .	1						
Outside bosses, . . .	3	. . .	1 75 to 2 70				

Breaker, No. 2.

Lehigh and Wilkesbarre Coal Company, Audenried, Carbon county.

Mine located in Carbon county.

Quantity of tons and value in dollars of annual product, 115,379$\frac{18}{20}$ ton; estimated, $230,758.

Whole number of persons employed, 345 men and boys.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	97	. . .	$1 75 to $4 00	. . . .	10	199$\frac{1}{4}$	
Miners on wages, . .	2	. . .	1 83 to 2 00				
Outside laborers and firemen, ...	30	. . .	1 20 to 1 75				
Inside laborers, . .	91	. . .	1 58 to 1 83				
Outside mechanics and engineers, . .	11	1	1 75 to 2 25	$1 00			
Outside mule drivers,	. . .	5	. . . .	$0 75 to $0 90			
Inside mule drivers and door-boys, . .	6	20	1 58	80 to 1 35			
State-pickers, ...	6	63	1 00 to 1 25	30 to 65			
Mining overseers, .	1						
Outside bosses, . . .	2	. . .	2 25 to 3 00				

Breaker, No. 4.

Lehigh and Wilkesbarre Coal Company, Audenried, Carbon county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, $81,138\frac{1}{200}$ tons; estimated, $162,276.

Whole number of persons employed, 202 men and boys.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	53	. . .	$2 00 to $4 20	. . . .	10	$201\frac{4}{10}$	
Outside laborers and firemen, ...	19	4	1 20 to 1 60	60c. to $1 15			
Inside laborers, . .	29	. . .	1 50 to 1 83				
Outside mechanics and engineers, . .	5	. . .	1 90 to 2 00				
Inside mechanics and and engineers, . .	4	. . .	1 50 to 1 60				
Inside mule drivers,	4	22	1 58	90c. to 1 45			
Slate pickers, ...	22	37	1 00 to 1 20	35c. to 90c.			
Mining overseers, .	1						
Outside bosses, . . .	2	. . .	1 75 to 2 50				

Breaker, No. 5.

Lehigh and Wilkesbarre Coal Company, Audenried, Carbon county.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of annual product, $119,702\frac{3}{20}$ tons; estimated, $239,404.

Whole number of persons employed, 276 men and boys.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	75	. . .	$1 75 to $4 00	. . . .	10	204½	
Miners on wages, . .	2	. . .	1 83				
Outside laborers and firemen, ...	26	4	1 15 to 1 60	$1 00 to $1 15			
Inside laborers, . .	78	. . .	1 58 to 1 83				
Outside mechanics and engineers, . .	8	. . .	1 80 to 2 35				
Outside mule drivers,	. . .	4	. . . .	65c. to 1 00			
Inside mule drivers and door boys, . .	. . .	20	. . . .	80c. to 1 50			
Slate pickers, ...	15	42	1 00 to 1 25	30c. to 80c.			
Outside bosses, . . .	2	. . .	1 90 to 2 50				

William Penn.

William Penn Coal Company, Mahanoy Planes, Schuylkill county.

Mine located in Shenandoah valley, Schuylkill county.

Quantity of tons, and value in dollars, of annual product: 150,000 tons; sells for at present at colliery $1 20 per ton—$180,000.

Whole number of persons employed, 500.

Amount of capital employed in business, $300,000.

Amount paid annually for wages of employés, $150,000.

Amount paid for materials used in business, $30,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	150	. . .	$2 00	. . .	8	150	
Miners on wages, . .	30	. . .	1 50	. . .	8		
Outside laborers, .	126	. . .	1 25	*$ 80	10		* Average.
Inside laborers, . . .	50	. .	1 50	1 00	8		
Outside mechanics, .	20	. . .	2 00	. . .	10		
Outside mule drivers,	5	. . .	1 00	10			
Inside mule drivers,	15	. . .	1 12	. . .	10		
Dumpers, ...	2	. . .	1 40	. . .	10		
Mining overseers, .	1	. . .	4 00	. . .	10		
Manager, ...	1						

Remarks.—We find that the production of coal is about equal to double its consumption, and therefore the market is continually overstocked, and prices are reduced below cost of mining. If this is persisted in, the individuals will be closed out by and into large corporations, the men reduced deeper into poverty, and the region bankrupt.

W. H. LEWIS,
Manager.

Glendower.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars, of product for eleven months, ending November 30, 1876, 23,601 tons; $41,511 14.

Whole number of persons employed, 225.

Amount paid annually for wages of employés, $41,131 91.

Amount paid for materials used in business, $11,943 65.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract,	53	. . .	2 45	. . .	10	92	Per day, $1 69.
Miners on wages,	9	. . .	1 60				
Outside laborers,	25	2	1 22	$0 82			
Inside laborers,	36	11	1 40	58			
Outside mechanics,	14	. . .	1 53				
Outside mule drivers,	1	9	1 45	77			
Inside mule drivers,	8	. . .	1 30				
Dumpers,	2	. . .	1 18				
Slate pickers,	. . .	51	. . .	58			
Mining overseers,	4	. . .	2 50				

ALBERT FOSTER,
Secretary.

Phœnix Park, No. 2.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 25,001 tons; $54,565 97.

Whole number of persons employed, 123.

Amount paid annually for wages of employés, $29,484 46.

Amount paid for materials used in business, $7,606 71.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	36	. . .	$1 39 to $2 76	. . .	10	97¾	Average per day, $1 95.
Miners on wages, . .	4	. . .	1 49	. . .			
Outside laborers, . .	17	1	1 17	$0 79			
Inside laborers, . . .	18	6	1 34	73			
Outside mechanics, .	6	. . .	1 70	. . .			
Outside mule drivers,	1	2	1 25	66			
Inside mule drivers,	. . .	1	. . . .	85			
Dumpers, ...	2	. . .	1 18				
Slate pickers, ...	. . .	25	. . . .	53			
Mining overseers, .	4	. . .	2 45				

ALBERT FOSTER,
Secretary.

Otto.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product, for eleven months, ending November 30, 1876, 26,294 tons; $47,437 91.

Whole number of persons employed, 207.

Amount paid annually for wages of employés, $40,135 86.

Amount paid for materials used in business, $14,247 79.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	60	. . .	$0 90 to $2 74	. . .	10	106¼	Average per day, $1 70.
Miners on wages, . .	7	. . .	1 60				
Outside laborers, . .	22	7	1 24	$0 71			
Inside laborers, . .	24	11	1 36	71			
Outside mechanics, .	9	. . .	1 71				
Outside mule drivers,	4	3	1 18	70			
Inside mule drivers,	3	3	1 24	85			
Dumpers, ...	3	. . .	1 22				
State-pickers, ...	. . .	47	. . . .	43			
Mining overseers, .	4	. . .	2 78				

ALBERT FOSTER,
Secretary.

East Franklin.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product, for eleven months, ending November 30, 1876, 27,641 tons; $63,900 62.

Whole number of persons employed, 147.

Amount paid annually for wages of employés, $34,895 84.

Amount paid for materials used in business, $8,391 71.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	47	. . .	$0 76 to $3 35	. . .	10	162	Average per day, $1 57.
Miners on wages, . .	2	. . .	1 60	. . .	. . .	162	
Outside laborers, . .	14	3	1 22	$0 57	. . .	162	
Inside laborers, . .	26	13	1 34	70	. . .	162	
Outside mechanics, .	9	. . .	1 56	. . .	. . .	162	
Outside mule drivers,	2	1	1 38	56	. . .	162	
Inside mule drivers,	4	1	1 30	66	. . .	162	
Dumpers, ...	1	. . .	1 32	. . .	. . .	162	
Slate-pickers, ...	. .	21	. . . .	40	. . .	162	
Mining overseers, .	3	. . .	2 87	. . .	. . .	162	

ALBERT FOSTER,
Secretary.

North Franklin, No. 1.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Northumberland county.

Quantity of tons and value in dollars of product, for eleven months, ending November 30, 1876, 36,016 tons; $70,744 24.

Whole number of persons employed, 141.

Amount paid annually for wages of employés, $38,411 93.

Amount paid for materials used in business, $11,732 88.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	37	. . .	$1 11 to $2 32	. . .	10	220	Average per day, $1 82.
Miners on wages, . .	6	. . .	1 55				
Outside laborers, . .	18	3	1 20	$0 60			
Inside laborers, . .	14	8	1 23	76			
Outside mechanics, .	8	. . .	1 57				
Outside mule drivers,	4	3	1 29	79			
Inside mule drivers,	2	. . .	1 30				
Dumpers, ...	2	. . .	1 18				
Slate-pickers, ...	. . .	39	. . . .	43			
Mining overseers, .	2	. . .	3 10				

ALBERT FOSTER,
Secretary.

Thomaston.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkil county.

Quantity of tons and value in dollars of product, for eleven months, ending November 30, 1876, 60,631 tons; $127,191 98.

Whole number of persons employed, 282.

Amount paid annually for wages of employés, $80,153 67.

Amount paid for materials used in business, $25,197 46.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	74		$1 02 to 2 81		10	169	Average per day, $1 73.
Miners on wages, . .	23	. . .	1 65				
Outside laborers, . .	28	4	1 22	$ 72			
Inside laborers, . .	31	11	1 44	61			
Outside mechanics, .	11	. . .	1 62				
Outside mule-drivers,	6	3	1 11	66			
Inside mule-drivers,	10	2	1 16	73			
Dumpers, ...	2	. . .	1 12				
Slate-pickers, . . .	2	71	92	53			
Mining overseers, .	4	. . .	2 72				

ALBERT FOSTER,
Secretary.

Elmwood.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product, for eleven months, ending November 30, 1876, 33,957 tons; $63,537 01.

Whole number of persons employed, 173.

Amount paid annually for wages of employés, $34,835.

Amount paid for materials used in business, $10,549 35.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	56		$ 70 to 3 09		10	156¾	Average per day, $1 54.
Miners on wages, . .	2	. . .	1 60				
Outside laborers, . .	15	. . .	1 22				
Inside laborers, . .	22	3	1 36	$ 60			
Outside mechanics, .	6	. . .	1 66				
Outside mule-drivers	1	2	1 45	85			
Inside mule-drivers,	6	1	99	85			
Dumpers, ...	1	. . .	1 32				
Slate-pickers, ...	. . .	56	. . .	52			
Mining overseers, .	2	. . .	2 99				

ALBERT FOSTER,
Secretary.

Newkirk.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, no tonnage.

Whole number of persons employed, 1.

Outside laborers, 1; daily wages paid, $1 22.

ALBERT FOSTER,
Secretary.

Buckville.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, no tonnage.

Outside laborers, 1; daily wages paid, $1 22.

ALBERT FOSTER,
Secretary.

Oakdale.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, no tonnage.

Whole number of persons employed, 4.

Outside laborers, 2; daily wages paid, $1 19. Outside mechanics, 2; daily wages paid, $1 75.

Pumping only during the year

ALBERT FOSTER,
Secretary.

Richardson.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 6,899 tons; $11,170 04.

Whole number of persons employed, 145.

Amount paid annually for wages of employés, $17,441 21.

Amount paid for materials used in business, $6,289 18.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	51	. . .	56c. to $2 25	. . .	10	47¾	Average per day $1 51.
Miners on wages, . .	10	. . .	1 58				
Outside laborers, . .	17	2	1 22	76c.			
Inside laborers, . .	18	5	1 44	59c.			
Outside mechanics, .	7	. . .	1 63				
Outside mule drivers,	2	. . .	1 32				
Inside mule drivers,	3	1	1 35	85c.			
Slate pickers, ...	. . .	25	. . . .	54c.			
Mining overseers, .	4	. . .	2 66				

ALBERT FOSTER,
Secretary.

Pine Knot.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 25, 1876, no tonnage.

Whole number of persons employed, 12.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Outside laborers, . .	7	. . .	$1 30				
Outside mechanics, .	4	. . .	1 67				
Outside mule drivers,	1	. . .	1 32				

Remarks.—This colliery was pumping only during the year.

ALBERT FOSTER,
Secretary.

Beechwood.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of product, for eleven months, ending November 30, 1876, 67,617 tons; $114,428 32.

Whole number of persons employed, 350.

Amount paid annually for wages of employés, $90,288 88.

Amount paid for materials used in business, $25,844 55.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	126	. .	71c to $3 00	. .	10	174½	Average, $1 63 per day.
Miners on wages, . .	18	. . .	1 60				
Outside laborers, . .	25	7	1 24	64			
Inside laborers, . .	59	25	1 41	69			
Outside mechanics, .	8	. . .	1 60				
Outside mule drivers,	1	5	1 45	67			
Inside mule drivers,	7	10	1 17	85			
Dumpers, ...	2	. . .	1 25				
Slate pickers, ...	. . .	51	. . .	39			
Mining overeers, . .	6	. . .	2 72				

ALBERT FOSTER,
Secretary.

Rainbow.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product, for eleven months, ending November 30, 1876, no tonnage.

Whole number of persons employed, 7.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Outside laborers, . .	3	. . .	$1 37				
Outside mechanics, .	4	. . .	1 52				

REMARKS.—This colliery was pumping *only*, during the year.

ALBERT FOSTER,
Secretary.

Mahanoy City.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product, for eleven months, ending November 30, 1876, 60,829 tons; $120,381 75.

Whole number of persons employed, 262.

Amount paid annually for wages of employés, $70,053 56.

Amount paid for materials used in business, $20,849 24.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	72	. .	$0 99 to 3 01	. .	10	201¼	Average per day, $1 67.
Miners on wages, . .	3	. . .	1 60				
Outside laborers, . .	27	. . .	1 22				
Inside laborers, . .	52	3	1 41	$0 66			
Outside mechanics, .	12	. . .	1 65				
Outside mule drivers,	4	1	1 19	0 73			
Inside mule drivers,	8	. . .	1 05				
Dumpers, ...	2	. . .	1 28				
Slate-pickers, ...	. . .	76	. . .	0 56			
Mining overseers, .	2	. . .	3 27				

ALBERT FOSTER,
Secretary.

Ellangowan Shaft Colliery.

Philadelphia and Reading Coal and Iron Company, Philadelphia, Philadelphia county.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of product for eleven months, ending November 30, 1876, no tonnage.

Whole number of persons employed, 84.

Amount paid annually for wages of employés, $13,679 92.

Amount paid for materials used in business, $4,204 20.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	28	. .	$0 74 to $3 80	. . .	10	56	Average per day, $2 12.
Miners on wages, . .	2	. .	1 60				
Outside laborers, . .	9	1	1 30	$0 79			
Inside laborers, . .	29	2	1 44	66			
Outside mechanics, .	5	. .	1 67				
Outside mule drivers,	2	1	1 20	39			
Inside mule drivers,	4	. .	1 42				
Mining overseers, . .	1	. .	3 96				

REMARKS.—No breaker at this shaft. All coal mined was passed through Knickerbocker breaker.

ALBERT FOSTER, *Secretary.*

West Shenandoah Colliery.

Philadelphia and Reading Coal and Iron Company, Philadelphia, Philadelphia county.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of product for eleven months, ending November 30, 1876, 59,749 tons; $123,274 59.

Whole number of persons employed, 262.

Amount paid annually for wages of employés, $45,260 70.

Amount paid for materials used in business, $22,158 52.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	70	. .	$0 37 to $3 67	. . .	10	162	Average per day, $1 63.
Miners on wages, . .	3	. .	1 58				
Outside laborers, . .	27	3	1 18	$0 71			
Inside laborers, . . .	37	5	1 44	63			
Outside mechanics, .	7	. .	1 62				
Outside mule drivers,	2	5	1 45	77			
Inside mule drivers,	4	11	1 34	83			
Dumpers, ...	1	. .	1 38				
Slate pickers, . . .	. .	85	. . . .	57			
Mining overseers, . .	2	. .	3 11				

ALBERT FOSTER, *Secretary.*

Girard.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 6,057 tons; $10,262 76.

Whole number of persons employed, 209.

Amount paid annually for wages of employés $9,473 45.

Amount paid for materials used in business, $3,442 14.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	21	. . .	$0 59 to $2 53	. . .	10	39	Average per day, $1 82.
Miners on wages, . .	10	. . .	1 60				
Outside laborers, . .	30	3	1 22	$0 85			
Inside laborers, . .	53	. . .	1 38				
Outside mechanics, .	8	. . .	1 70				
Outside mule drivers,	4	4	1 21	85			
Inside mule drivers,	7	1	1 38	73			
Slate pickers, ...	2	62	92	51			
Mining overseers, . .	4	. . .	2 97				

REMARKS.—Owned by the company only part of the year.

ALBERT FOSTER,
Secretary.

Hammond.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars for eleven months, ending November 30, 1876, 27,677 tons; $48,597 75.

Whole number of persons employed, 241.

Amount paid annually for wages of employés, $22,474 27.

Amount paid for materials used in business, $10,086 17.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	44	. . .	$0 88 to $2 12	. . .	10	79	Average per day, $1 45.
Miners on wages, . .	10	. . .	1 60				
Outside laborers, . .	35	4	1 18	$0 73			
Inside laborers, . . .	46	4	1 41	59			
Outside mechanics, .	7	. . .	1 56				
Outside mule drivers,	4	4	1 21	77			
Inside mule drivers,	7	4	1 25	76			
Dumpers, ...	2	. . .	1 12				
Slate pickers, ...	2	65	92	53			
Mining overseers, . .	3	. . .	3 08				

Remarks.—Owned by company only part of the year.

ALBERT FOSTER,
Secretary.

Anchor.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 29,876 tons; $50,728 44.

Whole number of persons employed, 256.

Amount paid annually for wages of employés, $45,939 95.

Amount paid for materials used in business, $16,246 47.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Days in operation during year.	Hours worked per day.	REMARKS.
Miners on contract, .	56	. . .	83c. to $2 45	. . .	10	104½	$1 53, average per day.
Miners on wages, . .	32	. . .	1 60				
Outside laborers, . .	24	2	1 21	74c.			
Inside laborers, . . .	35	12	1 49	66c.			
Outside mechanics, .	11	. . .	1 60				
Outside mule drivers,	2	7	1 25	79c.			
Inside mule drivers,	9	. . .	1 03				
Dumpers, ...	2	. . .	1 19				
Slate pickers, ...	. . .	60	. . . .	47c.			
Mining overseers, .	4	. . .	2 60				

ALBERT FOSTER,
Secretary.

Boston Run.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 45,191 tons; $95,021 27.

Whole number of persons employed, 182.

Amount paid annually for wages of employés, $45,585 22.

Amount paid for materials used in business, $15,727 38.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	44	. . .	78c. to $2 29	. . .	10	168¾	Average per day, $1 62.
Miners on wages, . .	2	. . .	1 60				
Outside laborers, . .	29	. . .	1 22				
Inside laborers, . . .	27	2	1 42	79c.			
Outside mechanics, .	5	. . .	1 58				
Outside mule drivers,	4	3	1 15	79c.			
Inside mule drivers,	8	. . .	1 19				
Dumpers, ...	1	. . .	1 30				
Slate pickers, ...	. . .	55	. . . .	58c.			
Mining overseers, .	2	. . .	3 22				

ALBERT FOSTER,
Secretary.

Bast.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity in tons, and value in dollars, of product for eleven months, ending November 30, 1876, 73,642 tons; $146,978 88.

Whole number of persons employed, 286.

Amount paid annually for wages of employés, $82,113 65.

Amount paid for materials used in business, $36,403 26.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	57	. .	$1 01 to 3 08	. .	10	172	Average per day, $1 96.
Miners on wages, . .	22	. . .	1 66				
Outside laborers, . .	38	1	1 23	79			
Inside laborers, . .	57	10	1 45	71			
Outside mechanics, .	10	. . .	1 72				
Outside mule drivers,	6	. . .	1 16				
Inside mule drivers,	9	. . .	1 29				
Dumpers, ...	3	. . .	1 18				
Slate pickers, ...	4	64	92	57			
Mining overseers, .	5	. . .	2 33				

ALBERT FOSTER,
Secretary.

Locust Run.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Columbia county.

Quantity of tons, and value in dollars, of product for eleven months, ending November 30, 1876, 47,502 tons; $98,214 15.

Whole number of persons employed, 205.

Amount paid annually for wages of employés, $55,076 17.

Amount paid for materials used in business, $13,691 13.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	24	. .	77c. to $1 63	. .	10	171¾	Average per day, $1 13.
Miners on wages, . .	13	. . .	1 60				
Outside laborers, . .	29	3	1 18	$0 77			
Inside laborers, . . .	40	. . .	1 34				
Outside mechanics, .	14	. . .	1 64				
Outside mule drivers,	2	. . .	1 12				
Inside mule drivers,	12	2	1 26	76			
Dumpers, ...	2	. . .	1 12				
Slate pickers, ...	. . .	62	. . .	53			
Mining overseers, .	2	. . .	3 20				

ALBERT FOSTER,
Secretary.

Tunnel.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, $66,311 tons; $133,844 62.

Whole number of persons employed, 265.

Amount paid annually for wages of employés, $79,498 67.

Amount paid for materials used in business, $22,994 66.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	33	. . .	$1 20 to $2 71	. . .	10	193¼	Average per day. $2 07.
Miners on wages, . .	25	. . .	1 67				
Outside laborers, . .	34	. . .	1 20				
Inside laborers, . .	57	9	1 52	$0 73			
Outside mechanics, .	13	. . .	1 69				
Outside mule drivers,	7	1	1 22	53			
Inside mule drivers,	11	6	1 24	82			
Slate-pickers, ...	3	61	92	52			
Mining overseers, . .	5	. . .	2 84				

ALBERT FOSTER,
Secretary.

Potts.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Columbia county.

Quantity of tons and value of dollars of product for eleven months, ending November 30, 1876, 38,527 tons; $90,451 92.

Whole number of persons employed, 290.

Amount paid annually for wages of employés, $70,173 47.

Amount paid for materials used in business, $25,793 95.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	47	. . .	$1 79 to $3 17	. . .	10	114	Average per day, $2 54.
Miners on wages, . .	13	. . .	1 59				
Outside laborers, . .	50	1	1 16	$0 59			
Inside laborers, . .	48	9	1 47	73			
Outside mechanics, .	13	. . .	1 62				
Outside mule drivers,	2	2	1 19	53			
Inside mule drivers,	10	2	1 26	86			
Dumpers, ...	1	. . .	1 19				
Slate-pickers, ...	. .	88	53				
Mining overseers, .	4	. . .	2 99				

ALBERT FOSTER,
Secretary.

Merriam.

Philadelphia and Reading Coal and Iron Company, Philadelphia, county of Philadelphia.

Mine located in Northumberland county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 105,759 tons; $227,759\frac{35}{100}$.

Whole number of persons employed, 329.

Amount paid annually for wages of employés, $107,042\frac{83}{100}$.

Amount paid for materials used in business, $31,767\frac{10}{100}$.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	79	. . .	99c. to $2 99	. . .	10	201¾	Average $1 88 per day.
Miners on wages, . .	8	. . .	1 60	. . .			
Outside laborers, . .	48	. . .	1 21	. . .			
Inside laborers, . . .	61	6	1 42	77			
Outside mechanics, .	11	. . .	1 66	. . .			
Outside mule drivers,	2	2	1 38	88			
Inside mule drivers,	11	2	1 14	77			
Slate pickers, ...	. . .	95	. . . .	57			
Mining overseers, .	4	. . .	2 79				

ALBERT FOSTER,
Secretary.

Helfenstein.

Philadelphia and Reading Coal and Iron Company, Philadelphia, county of Philadelphia.

Mine located in Northumberland county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 15,700 tons; $31,665 09.

Whole number of persons employed, 120.

Amount paid annually for wages of employés, $21,226 30.

Amount paid for materials used in business, $5,524 87.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year	REMARKS.
Miners on contract, .	35	. . .	$1 03 to 2 35	. . .	10	96	Average per day, $1 83.
Miners on wages, . .	2	. . .	1 60	. . .			
Outside laborers, . .	17	. . .	1 26	. . .			
Inside laborers, . . .	26	3	1 37	68			
Outside mechanics, .	4	. . .	1 59	. . .			
Outside mule drivers,	. . .	1	. . . .	79			
Inside mule drivers,	5	. .	1 17	. . .			
Dumpers, ...	2	. . .	1 18	. . .			
Slate pickers, ...	. . .	23	. . . .	54			
Mining overseers, .	2	. . .	3 30	. . .			

ALBERT FOSTER,
Secretary.

Mount Carmel Shaft.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Northumberland county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 70,431 tons; $133,101 54.

Whole number of persons employed, 344.

Amount paid annually for wages of employés, $66,529 01.

Amount paid for materials used in business, $39,082 31.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	113	. .	$1 02 to 3 21	. .	10	155¾	Average per day, $1 77.
Miners on wages, . .	8	. . .	1 60				
Outside laborers, . .	35	1	1 20	$0 79			
Inside laborers, . .	42	12	1 66	66			
Outside mechanics, .	9	. . .	1 70				
Outside mule drivers,	4	. . .	1 32				
Inside mule drivers,	18	1	1 10	79			
Dumpers, ...	2	. . .	1 25				
Slate-pickers, ...	. . .	96	. . .	70			
Mining overseers, .	3	. . .	2 91				

ALBERT FOSTER,
Secretary.

North Franklin, No. 2.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Northumberland county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 123 tons; $317.

Whole number of persons employed, 7.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	. . .	. . .	. . .	. . .	10	. . .	Colliery idle during the year.
Miners on wages, . .	3	. . .	$1 55				
Outside laborers, . .	3	. . .	1 19				
Mining overseers, .	1	. . .	3 46				

ALBERT FOSTER,
Secretary.

Eagle Hill Shaft.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 34,547 tons; $76,403 15.

Whole number of persons employed, 190.

Amount paid annually for wages of employés, $38,814 08.

Amount paid for materials used in business, $7,209 34.

CLASSIFICATION.	Number of men, . .	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	59		$1 00 to 2 78	. . .	10	101	Average per day, $1 82.
Miners on wages, . .	3	. . .	1 55				
Outside laborers, . .	19	6	1 18	$0 77			
Inside laborers, . .	35	12	1 41	66			
Outside mechanics, .	10	. . .	1 56				
Outside mule-drivers,	1	. . .	1 32				
Inside mule-drivers,	. . .	7	. . .	85			
Dumpers, ...	1	. . .	1 18				
Slate-pickers, ...	. . .	33	. . .	41			
Mining overseers, .	4	. . .	2 68				

ALBERT FOSTER,
Secretary.

Mine Hill Gap.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product, for eleven months, ending November 30, 1876, 74,157 tons ; $146,455 61.

Whole number of persons employed, 283.

Amount paid annually for wages of employés, $97,211 99.

Amount paid for materials used in business, $37,788 56

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	50	. .	$0 64 to 3 62	. .	10	204¾	Average per day, $2 13.
Miners on wages . .	21	. . .	1 60				
Outside laborers, . .	33	. . .	1 22				
Inside laborers, . .	42	25	1 44	$0 67			
Outside mechanics, .	12	. . .	1 70				
Outside mule drivers,	1	. . .	1 32				
Inside mule-drivers,	1	12	1 52	1 02			
Dumpers, ...	3	. . .	1 18				
Slate-pickers, ...	2	76	96	45			
Mining overseers, .	5	. . .	3 08				

ALBERT FOSTER,
Secretary.

Ellangowan Colliery.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of product for eleven months, ending November 30, 1976, 78,089 tons ; $146,771 27.

Whole number of persons employed, 304.

Amount paid annually for wages of employés, $66,417 73.

Amount paid for materials used in business, $24.238 30.

CLASSIFICATION.	Number of boys.	Number of men.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	107	. . .	$0 56 to $3 02	. . .	10	182	Average per day, $1 47.
Miners on wages, . .	4	. . .	1 58				
Outside laborers, . .	37	. . .	1 18				
Inside laborers, . . .	45	6	1 36	$0 63			
Outside mechanics, .	7	. . .	1 58				
Outside mule drivers,	10	. . .	1 02				
Inside mule drivers,	6	. . .	1 34				
Dumpers, ...	1	. . .	1 38				
Slate pickers, ...	. . .	78	. . . .	53			
Mining overseers, .	3	. . .	3 19				

ALBERT FOSTER,
Secretary.

Plank Ridge Colliery.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of product for eleven months, ending November 30, 1876, 90,657 tons; $188,561 72.

Whole number of persons employed, 301.

Amount paid annually for wages of employés, $81,988 99.

Amount paid for materials used in business, $15,306 97.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	54	. . .	$0 59 to $3 58	. . .	10	183½	Average per day, $1 82.
Miners on wages, . .	12	. . .	1 54				
Outside laborers, . .	29	3	1 18	$0 72			
Inside laborers, . . .	79	9	1 42	63			
Outside mechanics, .	11	. . .	1 51				
Outside mule drivers,	1	5	1 45	75			
Inside mule drivers,	21	2	1 04	71			
Dumpers, ...	2	. . .	1 22				
State pickers, ...	. . .	71	. . . .	49			
Mining overseers, .	2	. . .	3 83				

ALBERT FOSTER,
Secretary.

Conner.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 16,912 tons; $27,949 92.

Whole number of persons employed, 273.

Amount paid annually for wages of employés, $17,342 67.

Amount paid for materials used in business, $7,654 82.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	89	. . .	$0 57 to $2 38	. . .	10	64¾	Average per day, $1 63.
Miners on wages, . .	7	. . .	1 60				
Outside laborers, . .	22	2	1 14	$0 79			
Inside laborers, . .	50	8	1 40	59			
Outside mechanics, .	6	. . .	1 56				
Outside mule drivers,	1	3	92	79			
Inside mule drivers,	. . .	13	. . . .	1 08			
Dumpers, ...	3	. . .	1 15				
Slate pickers, ...	2	65	92	54			
Mining overseers, .	2	. . .	2 77				

Remarks.—Owned by company only part of the year.

ALBERT FOSTER,
Secretary.

West Brookside.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 154,544 tons; $412,858 71.

Whole number of persons employed, 464.

Amount paid annually for wages of employés, $128,444 26.

Amount paid for materials used in business, $60,872 22.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	178	. . .	$0 49 to $3 04	. . .	10	176½	Average per day, $1 57.
Miners on wages, . .	7	. . .	1 62				
Outside laborers, . .	31	. . .	1 22				
Inside laborers, . .	108	7	1 28	$0 59			
Outside mechanics, .	13	. . .	1 81				
Outside mule drivers,	3	6	1 45	69			
Inside mule drivers,	12	18	1 23	80			
Dumpers, ...	7	. . .	1 18				
Slate pickers, ...	1	70	1 05	44			
Mining overseers, . .	3	. . .	3 26				

ALBERT FOSTER,
Secretary.

Indian Ridge.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of product for eleven months, ending November 30, 1876, 96,092 tons; $206,856 33.

Whole number of persons employed, 386.

Amount paid annually for wages of employés, $97,033 20.

Amount paid for materials used in business, $12,414 86.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	78	. .	$0 41 to 2 68	. .	10	163¾	Average per day, $1 68.
Miners on wages, . .	7	. . .	1 57				
Outside laborers, . .	39	2	1 18	$0 59			
Inside laborers, . . .	91	12	1 41	63			
Outside mechanics, .	15	. . .	1 57				
Outside mule drivers,	2	7	1 45	74			
Inside mule drivers,	17	5	1 12	81			
Dumpers, ...	2	. . .	1 28				
Slate pickers, ...	2	103	92	56			
Mining overseers, .	4	. . .	2 95				

ALBERT FOSTER,
Secretary.

Keystone.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars, of product for eleven months, ending November 30, 1876, 27,004 tons; $41,724 58.

Whole number of persons employed, 230.

Amount paid annually for wages of employés, $42,170 84.

Amount paid for materials used in business, $15,681 55.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	36	. .	$1 37 to 2 69	. .	10	105¼	Average per day, $2 20.
Miners on wages, . .	12	. . .	1 64				
Outside laborers, . .	30	3	1 20	$0 88			
Inside laborers, . .	34	7	1 54	76			
Outside mechanics, .	9	. . .	1 63				
Outside mule drivers,	3	2	1 01	88			
Inside mule drivers,	10	1	1 27	88			
Dumpers, ...	. . .	2	. . .	88			
Slate pickers, ...	. . .	77	. . .	50			
Mining overseers, .	4	. . .	2 95				

ALBERT FOSTER,
Secretary.

Knickerbocker.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 99,662 tons; $199,831 51.

Whole number of persons employed, 313.

Amount paid annually for wages of employés, $78,985 68.

Amount paid for materials used in business, $32,361 55.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	88	. .	$0 84 to 3 09	. .	10	188	Average per day, $1 86.
Miners on wages, . .	9	. . .	1 58				
Outside laborers, . .	30	5	1 22	$0 80			
Inside laborers, . .	58	5	1 44	62			
Outside mechanics, .	9	. . .	1 64				
Outside mule drivers,	7	. . .	1 14				
Inside mule drivers,	3	6	1 34	98			
Dumpers, ...	3	. . .	1 12				
Slate-pickers, . . .	. . .	88	. . .	56			
Mining overseers, .	2	. . .	3 41				

ALBERT FOSTER,
Secretary.

North Mahanoy.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months ending November 30, 1876, 45,224 tons; $89,235 57.

Whole number of persons employed, 219.

Amount paid annually for wages of employés, $41,709 71.

Amount paid for materials used in business, $13,544 26.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	85	. .	$0 73 to 2 77	. .	10	176¼	Average per day, $1 25.
Miners on wages, . .	2	. . .	1 59				
Outside laborers, . .	16	. . .	1 22				
Inside laborers, . .	27	5	1 31	$0 46			
Outside mechanics, .	7	. . .	1 58				
Outside mule drivers,	1	2	1 45	81			
Inside mule drivers,	8	2	1 05	73			
Dumpers, ...	1	. . .	1 38				
Slate-pickers, ...	. . .	61	. . .	55			
Mining overseers, .	2	. . .	3 27				

ALBERT FOSTER, *Secretary.*

Pine Forest Colliery.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of product for eleven months, ending November 30, 1876, 31,538 tons; $58,636.

Whole number of persons employed, 242.

Amount paid annually for wages of employés, $60,101 41.

Amount paid for materials used in business, $21,313 18.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	62	. . .	$0 81 to $2 45	. . .	10	144	Average per day, $1 70.
Miners on wages, . .	11	. . .	1 60				
Outside laborers, . .	26	2	1 20	$0 85			
Inside laborers, . . .	54	10	1 43	59			
Outside mechanics, .	13	. . .	1 54				
Outside mule drivers,	2	2	1 31	66			
Inside mule drivers,	14	2	1 07	69			
Dumpers, ...	1	. . .	1 18				
Slate pickers, ...	. . .	37	. . . .	43			
Mining overseers, . .	6	. . .	2 69				

ALBERT FOSTER,
Secretary.

Wadesville Shaft.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons, and value in dollars of product for eleven months, ending November 30, 1876, 23,448 tons; $37,029 49.

Whole number of persons employed, 423.

Amount paid annually for wages of employés, $33,335 96.

Amount paid for materials used in business, $7,266 84.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	107	. .	$0 90 to $3 87	. . .	10	62¼	Average per day, $2 03.
Miners on wages, . .	34	. .	1 60				
Outside laborers, . .	29	3	1 19	$0 49			Owned by the company only part of the year.
Inside laborers, . . .	93	18	1 42	69			
Outside mechanics, .	12	. .	1 54				
Outside mule drivers,	6	7	1 37	50			
Inside mule drivers,	22	10	1 13	42			
Dumpers, ...	2	. .	1 25				
Slate pickers, ...	. .	74	. . . .	40			
Mining overseers, .	6	. .	2 75				

ALBERT FOSTER,
Secretary.

Middle Creek Shaft.

Philadelphia and Reading Coal and Iron Company, Philadelphia, county of Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 24,927 tons; $55,540 05.

Whole number of persons employed, 160.

Amount paid annually for wages of employés, $50,364 94.

Amount paid for materials used in business, $28,396 42.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day	Days in operation during year.	REMARKS.
Miners on contract, .	54	. . .	73c. to $2 46	. . .	10	142	Average per day, $1 38.
Miners on wages, . .	9	. . .	1 60				
Outside laborers, . .	16	4	1 23	72c.			
Inside laborers, . .	21	6	1 41	59c.			
Outside mechanics, .	9	. . .	1 62				
Outside mule drivers,	2	4	1 45	55c.			
Inside mule drivers,	2	3	92	77c.			
Dumpers, ...	1	. . .	1 32				
Slate pickers, ...	. . .	26	. . . .	39c.			
Mining overseers, .	3	. . .	3 12				

ALBERT FOSTER,
Secretary.

Locust Spring.

Philadelphia and Reading Coal and Iron Company, Philadelphia, county of Philadelphia.

Mine located in Northumberland county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 21,684 tons; $33,365 67.

Whole number of persons employed, 196.

Amount paid annually for wages of employés, $21,912 72.

Amount paid for materials used in business, $17,017 29.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	52	. . .	$1 15 to $3 37	. . .	10	102¼	Average per day, $1 78.
Miners on wages, . .	6	. . .	1 60				
Outside laborers, . .	21	. . .	1 23				
Inside laborers, . . .	37	3	1 42	73c.			
Outside mechanics, .	6	. . .	1 68				
Outside mule drivers,	6	. . .	1 03				
Inside mule drivers,	5	. . .	1 11				
Dumpers, ...	3	. . .	1 14				
Slate pickers, ...	2	52	1 05	49			
Mining overseers, . .	3	. . .	3 08				

ALBERT FOSTER,
Secretary.

Forestville.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months. ending November 30, 1876, 21,383 tons; $42,512 92.

Whole number of persons employed, 180.

Amount paid annually for wages of employés, $25,095 32.

Amount paid for materials used in business, $8,061 18.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	61	. . .	84c. to $2 23	. . .	10	88	Average per day, $1 50.
Miners on wages, . .	5	. . .	1 54				
Outside laborers, . .	19	. . .	1 19				
Inside laborers, . .	27	2	1 35	53c.			
Outside mechanics, .	8	. . .	1 49				
Outside mule drivers,	2	4	1 54	75c.			
Inside mule drivers,	2	. . .	1 54				
Dumpers, ...	2	. . .	1 30				
Slate pickers, ...	. . .	46	. . . .	43c.			
Mining overseers, .	2	. . .	3 04				

ALBERT FOSTER,
Secretary.

Preston, No. 1.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 16,908 tons; $39,819 50.

Whole number of persons employed, 171.

Amount paid annually for wages of employés, $22,753 78.

Amount paid for materials used in business, $11,718 48.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	46	. . .	91c. to $2 22	. . .	10	85½	$1 57, average per day.
Miners on wages, . .	2	. . .	1 56				
Outside laborers, . .	24	. . .	1 16				
Inside laborers, . .	19	1	1 39	64c.			
Outside mechanics, .	6	. . .	1 53				
Outside mule drivers,	4	5	1 29	67c.			
Inside mule drivers,	1	. . .	1 33				
Dumpers, ...	1	. . .	1 05				
Slate pickers, ...	. . .	59	. . . .	46c.			
Mining overseers, .	3	. . .	2 69				

ALBERT FOSTER,
Secretary.

Preston, No. 2.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 26,495 tons; $51,881 07.

Number of persons employed, 231.

Amount paid annually for wages of employés, $36,126 83.

Amount paid for materials used in business, $15,947 18.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	39	. . .	$1 20 to $3 08	. . .	10	104	Average per day, $1 71.
Miners on wages,	7	. . .	1 56				
Outside laborers,	36	1	1 18	$0 66			
Inside laborers,	30	7	1 43	66			
Outside mechanics,	7	. . .	1 74				
Outside mule drivers,	5	3	1 30	82			
Inside mule drivers,	10	. . .	1 23				
Dumpers,	2	. . .	1 11				
Slate pickers,	. . .	80	. . . .	55			
Mining overseers,	4	. . .	2 80				

ALBERT FOSTER,
Secretary.

Preston, No. 3.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months, ending November 30, 1876, 38 tons; $49 63.

Whole number of persons employed, 36.

Amount paid annually for wages of employés, $12,972.

Amount paid for materials used in business, $2,381 56.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	5	. . .	$1 86	. . .	10		Average per day, $1 86.
Miners on wages, . .	13	. . .	1 60				
Outside laborers, . .	5	. . .	1 19				This colliery idle during the year, except the driving of tunnel and gangways.
Inside laborers, . . .	2	4	1 45	$0 72			
Outside mechanics, .	4	. . .	1 75				
Outside mule drivers,	1	. . .	1 45				
Inside mule drivers,	1	. . .	1 05				
Mining overseers, .	1	. . .	4 20				

ALBERT FOSTER,
Secretary.

Pottsville.

Philadelphia and Reading Coal and Iron Company, Philadelphia.

Mine located in Schuylkill county.

Quantity of tons and value in dollars of product for eleven months ending November 30, 1876, 25,021 tons; estimate, $37,531.

Whole number of persons employed, 179.

Amount paid annually for wages of employés, $75,059 86.

Amount paid for materials used in business, $72,632 14.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	34	. .	81c. to $2 38	. .	10	159¾	Average per day, $1 21.
Miners on wages, . .	19	. . .	1 61				
Outside laborers, . .	25	. . .	1 21				
Inside laborers, . .	37	5	1 40	66c.			
Outside mechanics, .	9	. . .	1 63				
Outside mule drivers,	1	4	1 18	66c.			
Inside mule drivers,	5	. . .	97				
Dumpers, ...	1	. . .	1 18				
Slate pickers, ...	. . .	37	. . .	48c.			
Mining overseers, .	2	. . .	2 94				

ALBERT FOSTER,
Secretary.

Roaring Brook.

Roaring Brook Coal Company, Scranton, Luzerne county.

Mine located in Dunmore, Luzerne county.

Quantity of tons and value in dollars of annual product, 90,137.6½ gross tons produced; 2,400 gross tons used at colliery; 87,737$\frac{6}{20}$ gross tons sold; value of coal sold, $142,301 81.

Whole number of persons employed, 319.

Amount of capital employed in business, $200,000.

Amount paid annually for wages of employés, $104,205 01.

Amount paid for materials used in business, $32,869 11.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on wages, . .	65	. . .	From 70c. to $2 25.	From 30c. to $1 15.	10	163	
Outside laborers, . .	36	. . .			10		
Inside laborers, . .	86	. . .			10		
Outside mechanics, .	10	. . .			10		
Outside mule-drivers,	. . .	11			10		
Inside mule-drivers,	. . .	60			10		
Weigh-master, . . .	1	. . .			10		
Slate pickers, ...	. . .	49			10		
Mining overseers, .	1	. . .			10		

T. F. HUNT,
President.

Hillman's.

H. Baker Hillman, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, about 40,000 tons; estimated, $80,000.

Whole number of persons employed, about 125.

Amount paid annually for wages of employés, about $60,000.

Amount paid for materials used in business, about $15,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	30	. .	about $2 25	. . .	7 to 8	172	
Miners on wages, . .	4	. .	2 00 and 2 25	. . .	. . .	172	
Outside laborers, . .	7	. .	1 35 and 1 50	. .	10	172	
Inside laborers, . .	30	. .	1 80 and 2 00	. . .	7 to 8	172	
Outside mechanics, .	2	. . .	2 25	. . .	10	172	
Outside mule drivers,	. . .	2	. .	$1 50 and 1 35			
Inside mule drivers,	. . .	6	. .	1 50 and 1 35			
Slate pickers, ...	. . .	10	. .	50c. to 60c.	10	172	
Mining overseers, .	1						

REMARKS.—Vein, white ash, known as Hillman vein, overlying the Baltimore vein. Business terribly bad, losing money all the time.

H. BAKER HILLMAN.

Warrior's Run.

A. J. Davis, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 32,000 tons; value, $75,000.

Whole number of persons employed, 168.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, $58,000.

Amount paid for materials used in business, $11,000.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	30	. . .	$2 25	. . .	. . .	140	
Miners on wages, . .	15	. . .	2 00	. . .	. . .	140	
Outside laborers, . .	30	. . .	1 35	. . .	. . .	140	
Inside laborers, . . .	15	. . .	1 35	. . .	. . .	140	
Outside mechanics, .	3	. . .	2 00	. . .	. . .	140	
Inside mechanics, .	2	. . .	2 00	. . .	. . .	140	
Outside mule drivers,	2	. . .	1 75	. . .	. . .	140	
Inside mule drivers,	3	. . .	1 75	. . .	. . .	140	
Dumpers, ...	2	. . .	. . .	. . .	. . .	140	
Slate-pickers, ...	40	25	75	. . .	. . .	140	
Mining overseers, .	1	. . .	3 00	. . .	. . .	140	

A. J. DAVIS.

Franklin.

Franklin Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 82,300 tons; estimated, $164,600.

Whole number of persons employed, 275.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	43	. . .	$2 75	. . .	. . .	164	
Outside laborers, . .	77						
Inside laborers, . . .	63						
Outside mechanics, .	13						
Inside mechanics, .	5						
Outside mule drivers,	8						
Inside mule drivers,	13						
Dumpers, ...	2						
Slate-pickers, ...	8	10					
Mining overseers, .	1						
Civil engineers, . .	1						
Door-tenders, ...	. . .	8					
Breaker-boys, . . .	. . .	23					

R. R. MORGAN,
Superintendent.

Pennsylvania Coal Company.

Pennsylvania Coal Company, Pittston, Luzerne county.

Mines located in Luzerne county.

Quantity of tons and value in dollars of annual product, 981,780 tons; estimated value, $1,963,560.

Whole number of persons employed, 2,616.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Average days in operation during year at each mine.	REMARKS.
Miners on contract, .	692	. .	. . . .	. . . .	. . . .	226	
Miners on wages, . .	12	. .	$1 75 to $2 20	. . . .	8 and 10		
Outside laborers, . .	167	. .	1 00 to 1 50	. . . .	10		
Inside laborers, . .	871	57	1 40 to 2 10	61c. to 68c.	10		
Outside mechanics, .	93	. .	1 30 to 2 10	. . . .	10 to 12		
Inside mechanics, .	13	. .	1 15 to 2 00	. . . .	10		
Outside mule drivers,	. .	32	. . . .	76c. to 90c.	10		
Inside mule drivers,	. .	223	. . . .	92c. to $1 02	10		
Weigh-master, . . .	18	. .	1 85 to 2 10	. . . .	10		
Dumpers, and head and platform men,	103	. .	1 25 to 1 50	. . . .	10		
Slate-pickers, ...	. .	300	. . . .	40c. to 55c.	10		
Mining overseers, .	16	. .	1 at $2 10 1 at 2 75 14 at 3 30	. . . .	10		
Civil engineers, . .	1	. .	$100 per mo.	. . . .	10		
Assistant engineers,	2	. .	$2 per day.				
Outside foremen, . .	16	. .	$2 50 to $4 50	. . . .	10		

Dunmore Department.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Average days in operation during year at each mine.	REMARKS.
Miners on contract, .	109	. . .	. .	. . .	. . .	218⅓	
Miners on wages, . .	6						
Outside laborers, . .	3						
Inside laborers, . .	133	*23					
Outside mechanics, .	2						
Inside mechanics, .	3						
Outside mule drivers,	. . .	3					
Inside mule drivers,	. . .	31					
Weigh-master, . . .	2						
Dumpers, and head and platform men,	14						
Slate-pickers, ...	. . .	34					
Mining overseers, .	3						
Civil engineers, . .	1						
Outside foremen, . .	2						

---

* Gate boys.

CHARACTERISTICS OF COLLIERIES.—We have seventeen shafts and three slopes in operation, but two of these shafts are only used for pumping water. We have, also, at these, seven breakers. As this report includes twenty different openings, and the grades of labor and wages paid are so various, I have set the prices so as to include the most of the others. The average number of days in operation, as set opposite "miners on contract," is the average time that each place was engaged in getting out coal, as the places were working turn about for part of the year. But the whole number of days worked, in which coal was shipped from any of the mines during the year, was two hundred and sixty-four days.

JOHN B. SMITH,
General Superintendent.

Spring Mountain Colliery.

Spring Mountain Coal Company, worked by James C. Haydon & Co., Jeanesville, Luzerne county.

Mine located in Luzerne and Carbon counties.

Quantity of tons and value in dollars of annual product, 252,305 tons; $475,000.

Whole number of persons employed, 627.

Amount of capital employed in business, $50,000.

Amount paid annually for wages of employés, $256,000.

Amount paid for materials used in business, $50,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	135	. .	$3 75	. . .	8	188	
Miners on wages, . .	5	. . .	2 50	. . .	9	188	
Outside laborers, . .	70	. . .	1 50	. . .	10	200	
Inside laborers, . .	150	. . .	1 80	. . .	9	188	
Outside mechanics, .	16	. . .	2 25	. . .	10	280	
Inside mechanics, .	6	. . .	2 00	. . .	10	280	
Outside mule drivers,	. . .	10	. . .	70c.	. . .	188	
Inside mule drivers,	52	. . .	1 50	. . .	9	188	
Master dispatcher, .	2	. . .	2 00				
Dumpers, ...	6	. . .	1 50	. . .	10	188	
Slate-pickers, ...	. . .	148	. . .	50c.	10	188	
Mining overseers, .	8	. . .	2 75	. . .	10	300	
Engineers, ...	7	. . .	2 50	. . .	12	365	
Firemen, ...	12	. . .	1 90	. . .	12	365	

CHARACTERISTICS OF COLLIERY.—Spring Mountain collieries are in the Middle coal field, on the Beaver Meadow division of the Lehigh Valley railroad. The veins worked are the Mammoth, twenty-eight feet thick, white ash, and the Wharton, about eight feet thick, also white ash. There are three large breakers, and four slopes.

J. C. HAYDON & CO.

Upper Lehigh Colliery.

Upper Lehigh Coal Company, Upper Lehigh, Luzerne county.

Mine located in Upper Lehigh, Luzerne county.

Quantity of tons, and value in dollars of annual product, 250,576$\frac{17}{20}$ tons; value, $504,686 83.

Whole number of persons employed, 469.

Amount of capital employed in business, $700,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	110	. . .	$2 30	. . . .	10	223	
Miners on wages, . .	25	. . .	2 02				
Outside laborers, . .	47	. . .	1 30				
Inside laborers, . . .	63	. . .	1 72				
Outside mechanics, .	16	. . .	2 30				
Inside mechanics, .	3	. . .	2 40				
Outside mule drivers,	5	6	1 62	$0 90			
Inside mule drivers,	22	8	1 72	1 00			
Dumpers and loaders	12	. . .	1 48				
Slate pickers, ...	54	85	1 10	45			
Mining overseers, .	3	. . .	4 00				
Civil engineers, . .	1	. . .	2 50				
Clerks, ...	7	. . .	3 00				
Dispatchers, ...	2	. . .	2 00				

CHARACTERISTICS OF COLLIERY.—Four slopes, two breakers.

SAMUEL B. PRICE,
Chief Clerk.

Harleigh Colliery.

Harleigh Coal Company, Hazleton, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 120,937$\frac{14}{20}$ tons; $240,798 01.

Whole number of persons employed, 414.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, $197,930 45.

Amount paid for materials used in business, $41,877 58.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	93	. .	. . . .	. . . .	10	144¼	
Outside laborers, . .	34	. .	$1 54	. . . .	10	144¼	
Inside laborers, . . .	115	6	2 01	$1 24	10	144¼	
Outside mechanics, .	8	. .	2 17	. . . .	10	342	
Outside mule drivers,	. .	4	. . . .	1 05	10	144¼	
Inside mule drivers,	31	. .	1 78	. . . .	10	144¼	
Slate pickers, ...	20	85	1 12	43c. to 85c.	10	144¼	
Mining overseers, . .	3	. .	$86 50 pr. mo.	. . . .	10	365	
Engineers, ...	10	. .	65 00 pr. mo.	. . . .	10	365	
Firemen, ...	5	. .	55 00 pr. mo.	. . . .	10	365	

HARLEIGH COAL COMPANY.
L. A. Beddoe.

Erie Colliery.

Glenwood Coal Company, Scranton, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 92,264.12 tons; $185,451 84.

Whole number of persons employed, 300.

Amount paid annually for wages of employés, $104,800.

Amount paid for materials used in business, $21,113.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	50	. . .	$2 25	. . .	8	275	
Outside laborers, . .	40	. . .	1 54	. . .	8	275	
Inside laborers, . . .	110	. . .	1 90	. . .	8	275	
Outside mechanics, .	6	. . .	2 06	. . .	9	290	
Inside mechanics, .	1	. . .	2 06	. . .	8	275	
Outside mule drivers,	. . .	6	. . .	71	8	275	
Inside mule drivers,	. . .	30	. . .	85	8	275	
Door boys, ...	. . .	10	. . .	55	8	275	
Weigh-master, . . .	1	. . .	1 54	. . .	8	275	
Dumpers, ...	4	35	1 44	43c.	8	275	
Slate pickers, ...	4	. . .	1 50	. . .	8	275	
Mining overseers, .	2	. . .	3 60	. . .	10	310	
Clerk, ...	1	. . .	2 10	. . .	10	310	

CHARACTERISTICS OF COLLIERY.—Situated on D. and H. Canal Company's railroad, near Carbondale. Large single breaker, with a capacity of 600 tons per day. Single shaft, and second opening.

SAMUEL HINES,
Treasurer and Agent.

"Filer." **"Winton."**

George Filer & Thomas Livey, Winton, Luzerne county.

Mine located in Winton Boro', Luzerne county.

Quantity of tons and value in dollars of annual product, 146,274 tons; $245,326.

Whole number of persons employed, averaged 600.

Amount of capital employed in business, $250,000.

Amount paid annually for wages of employés, and materials used in business, including royalties, about $225,102.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	150	. . .	64c. ton	. . . .	10	152	Average wages made per day by miners on contract, $2 25.
Miners on wages, . .	. . .	. . .	$1 94				
Outside laborers, . .	60	. . .	1 35				
Miners' inside laborers, ...	150	. . .	1 49				
Outside mechanics, .	8	. . .	1 90				
Inside mechanics,	5	. . .	1 91				
Outside mule drivers,	. . .	9	. . . .	65c. to 77c.			
Inside mule drivers,	. . .	45	. . . .	74c. to $1 20			
Weigh-master, . . .	2	. . .	. . . .	1 80			
Dumpers, ...	8	. . .	1 35				
Slate pickers, ...	. . .	120	. . . .	37c. to 47c.			
Mining overseers, .	2	. .	$100 per month.				
Other laborers, . . .	40	. . .	$1 35				

REMARKS.—Miners' laborers are paid by the miners out of miners' earnings, at 64 cents per ton.

FILER & LIVEY,
By HOWELL.

Ellenwold.

Ellenwold Coal Company, limited, Wilkes Barre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 40,665.09 tons; value about $80,000.

Whole number of persons employed, about 225.

Amount paid annually for wages of employés, about $60,000.

Amount paid for materials used in business, about $10,000.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	45	. . .	$2 00	. . .	10	100	Commenced April 15, 1876.
Miners on wages, . .	2	. . .	1 80				
Outside laborers, . .	14	. . .	1 35				
Inside laborers, . . .	52	. . .	1 50				
Outside mechanics, .	5	. . .	2 03				
Inside mechanics, .	2	. . .	2 00				
Outside mule drivers,	. . .	2	1 15				
Inside mule drivers,	. . .	7	. . .	$1 20			
Slate pickers, ...	10	80	90	75			
Mining overseers, .	2	. . .	3 00				

Characteristics of Colliery.—New colliery, started about April 15, 1876. Openings consists of four drifts, eastward from Mill Hollow. Two shafts in close proximity to breaker. The dip in drifts is 28°, in the shafts from 5° to 10°. The drifts are upon Red Ash and Ross seams. Two open, each at two different levels. The shaft is upon the Bennett or E vein. There is an entire absence of fire-damp (carbureted hydrogen) in all the openings. The inflow of water is slight. Ventilation will be made commensurate with development of colliery.

In a word, the inclinations of the measures are gentle and favorable to economic working. The roof uniformly good and favorable to safety of life. The seams present no extraordinary features beyond those of local causes.

H. C. BRODHEAD,
Superintendent.

Hollenback, (Plainsville.)

Robert S. Poole, Pittston, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 34,857 tons; value, $54,600.

Whole number of persons employed, 116.

Amount of capital employed in business, $35,000.

Amount paid annually for wages of employés, $33,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	18	. . .	$2 75	. . .	10	163	
Outside laborers, . .	7	. . .	1 30	. . .	10	163	
Inside laborers, . .	20	. . .	2 25	. . .	10	163	
Outside mechanics, .	5	. . .	1 90	. . .	10	270	
Inside mechanics, .	2	. . .	1 90	. . .	10	200	
Outside mule drivers,	1	. . .	1 17	. . .	10	163	
Inside mule drivers,	6	. . .	1 30	. . .	10	163	
Weigh-master, . . .	1	. . .	2 00	. . .	10	163	
Dumpers, ...	1	. . .	1 35	. . .	10	163	
Slate-pickers, . . .	3	9	. .	$0 45 to 1 17	10	163	
Mining overseers, .	1	. . .	3 12	. . .	. . .	312	
Outside foreman, . .	1	. . .	2 50	. . .	. . .	312	

REMARKS.—Hollenback colliery is situated in Plains township, Luzerne county, Pa. Consists of one slope, 225 feet deep; angle, 20° from head of plane. One hoisting engine, 24-inch cylinder. One ditto, from inside slope, said engine being located on top—cylinder 10-inch. Vein known in this district as the Hillman, or 7 foot vein. Leased from J. Welles Hollenback, of Wilkesbarre.

R. S. POOLE.

Columbia Colliery.

Grove Brothers, Danville, Montour county, Pa.; or, Pittston, Luzerne county, Pa.

Mine located in Upper Pittston, Luzerne county.

Whole number of persons employed: 1 civil engineer, hired by the year; workmen, 45; 2 superintendents, (1 mine and 1 outside.)

Amount of capital employed in business: See Grove Brothers, Danville, Montour county, Pa.

Amount paid annually for wages of employés, $16,337 17.

Amount paid for materials used in business, $3,259 93.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	11	. .	$2 00 to $3 00*	. . .	6 to 8	146	* For 1876.
Miners on wages, . .	1	. .	2 50 to 3 00	. . .	10	30	
Outside laborers, . .	4	. .	1 35 to 1 60	. . .	10	146	
Inside laborers, . .	11	. .	1 80 to 2 05	. . .	8	146	
Outside mechanics, .	3	. .	1 98 to 2 20	. . .	10	255 330 218	Days w'k'd by eng'r. By blacksmith. By carpenter.
Inside mechanics, .	1	. .	2 00	. . .	10	227	
Outside mule drivers,	. .	1	. . . .	. . .	8 to 10	146	
Inside mule drivers,	1	3	1 75	$1 62	8 to 10	146	
Weigh-master, . . .	1	. .	2 05	. . .	10	146	
Dumpers, ...	1	. .	1 50†	1 00‡	10	146	† No man after Oct. ‡ After Oct., 1876.
Slate-pickers, . . .	. .	8	. . . .	0 45 to 0 60	10	146	
Mining overseers, .	2	. .	2 50 to 3 50	. . .	10	313	
Civil engineers, . .	1	. .	70 00	. . .	. . .	. . .	Per year.

Characteristics of Colliery.—Columbia colliery is a tunnel, opened or driven on the level to the Pittston 14 foot vein. The coal has diminished to 7 feet with us here. This coal is used mostly by Grove Brothers for furnace use in making pig iron. There is none of what we call blacksmith coal in it. We have only the lower tiers.

We have driven a plane to the checkered vein from inside. The coal proves good, and very little dirt in it.

EVAN J. EVANS,
For Grove Brothers.

Council Ridge Colliery.

J. Leisenring & Co., Eckley, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 117,311.10 tons; value at Mauch Chunk, $309,404 95.

Whole number of persons employed, 393.

Amount of capital employed in business, $150,000.

Amount paid annually for wages of employés, $110,000.

Amount paid for materials used in business, $26,558.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	101	. . .	$2 43	. . .	Av'ge 9 h'rs per day.	Total d's work'd, 133.	
Miners on wages, . .	10	. . .	2 02	. . .			
Outside laborers, . .	28	. . .	1 35	. . .			
Inside laborers, .	89	. . .	1 72	. . .			
Outside mechanics, .	7	. . .	2 00	. . .			
Inside mechanics, .	4	. . .	2 00	. . .			
Outside mule drivers,	. . .	5	. . .	$1 00			
Inside mule drivers,	25	12	1 70	1 35			
Dumpers, ...	8	. . .	1 51	. . .			
Slate-pickers, ...	34	66	1 20	65			
Mining overseers, .	3	. . .	. . .	. . .	. . .	. . .	$100 per month.
Dispatcher, ...	1	. . .	. . .	. . .	. . .	. . .	$60 per month.

J. LEISENRING & CO.

South Sugar Loaf, No. 3, Hazleton, Cranberry, East Crystal Ridge, Laurel Hill, Sugar Loaf.

A. Pardee & Co., Hazleton, Luzerne county.

Mines located in Luzerne county.

Quantity in tons and value in dollars of annual product, 272,000 tons, @ $1 50; $408,000.

Whole number of persons employed, 1,153.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REEARKS.
Miners on contract, .	309						65 additional men, including outside bosses, engineers, firemen, clerks, and employés at steam mill.
Outside laborers, . .	203	306					
Inside laborers, . .	125	14					
Outside mechanics, .	41						
Inside mechanics, .	20						
Inside mule drivers,	31	30					
Mining overseers, .	9						

REMARKS.—All of our employés, both inside and outside of mines, were paid for contract and days' wages, prices varying with the prices of coal at tide water, and as there was so much fluctuation in the price of coal during the season, we are unable to give the average rate of wages paid.

Least number of days worked at any one of our collieries, was 83 days; greatest number, $135\frac{4}{10}$.

C. PARDEE, *Supt.*
For A. PARDEE & CO.

Hollywood.

Calvin Pardee & Co., Hazleton, Pennsylvania.

Quantity of tons and value in dollars of annual product, 58,518 tons; value at mines, $87,927.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Time in operation during year.	REMARKS.
Miners on contract, .	32					The wages paid our employés varied nearly every month with the advance or decline in price of coal at tide water, and as a consequence, it is a difficult matter to state wages paid or earnings made, and we will not, therefore, attempt it.
Miners on wages, . .						
Outside laborers, . .	14	3				
Inside laborers, . . .	11					
Outside mechanics, .	8					
Outside mule drivers,	3					
Inside mule drivers,	1	4				
Dumpers, ...	4					
Slate pickers, ...	14	30				
Mining overseers, .	1					
Breaker boss, ...	1					
Breaker worked, . .	. . .	. . .	. . .	. . .	178 days.	

C. PARDEE, *Superintendent.*
For CALVIN PARDEE & CO.

Meadow Brook and National.

William Connell & Co., Scranton, Luzerne county.

Mines located in Twentieth ward, Scranton city, Luzerne county.

Quantity of tons and value in dollars of annual product, 141,129.3 tons; $232,940 85.

Whole number of persons employed, 645.

Amount of capital employed in business, $400,000.

Amount paid annually for wages of employés, $150,398 17.

Amount paid for materials used in business, $57,982 29.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	128	. . .	$2 80	. . .	4½	140	
Miners on wages,	10	. . .	2 10	. . .	4½	140	
Outside laborers,	32	3	1 35	$1 00	4½	140	
Inside laborers,	132	1	1 60	1 13	4½	140	
Outside mechanics,	21	. . .	2 00	. . .	4½	140	
Inside mechanics,	9	. . .	1 82	. . .	4½	140	
Outside mule drivers,	. . .	15	. . .	75	4½	140	
Inside mule drivers,	12	75	1 62	1 00	4½	140	
Weigh-master,	1	. . .	50	. . .	4½	140	
Dumpers,	6	. . .	1 35	. . .	4½	140	
Slate pickers,	11	135	1 35	50	4½	140	
Mining overseers,	3	. . .	3 50	. . .	10	312	
Civil engineers,	1	. . .	3 50	. . .	10	312	
Stable bosses, teamsters and others,	50	. . .	. .	. . .	10	312	

REMARKS.—The collieries named above are situated on the eastern side of the Lackawanna river, in the Twentieth ward of the city of Scranton. The Meadow Brook colliery was opened during the year 1871, and has been in continuous operation ever since that time. The openings consist of several drifts and a shaft operating two veins. The coal is shipped over the Delaware, Lackawanna and Western railroad, and is sold in New York and the Western markets principally. In appearance the coal is inferior to the Lehigh and Schuylkill coal, but has some characteristics which are peculiar to it, and make it especially valuable for domestic purposes. There is but little slate in the vein, and the coal burns freely with a bright blaze to a fine ash. There is very little waste, and it makes no clinker whatever. For domestic purposes it has no superior. It has also been used largely in the manufacture of iron, with good success. The National colliery, adjoining this property, has been owned and operated by the Susquehanna and Wyoming Valley Railroad and Coal Company, and has but recently come into the possession of this company. It is operated by a drift and slope opening two veins, one of which produces a very superior quality of blacksmith and steam coal. The veins now opened on both properties average about seven feet in thickness. The united capacity of the two breakers is about three hundred thousand tons per annum, but as will be seen by reference to accompanying statement, have not produced during the past year quite half that quantity. The two properties comprise one thousand four hundred acres, in addition to which there is under lease some five hundred acres more. There are some valuable tracts of timber land, extensive beds of brick, clay, and fine quarries of building stone. The Stafford Meadow brook, a stream of pure spring water, runs through the back part of the property.

The lands of the Pennsylvania Anthracite Company adjoin on the south, and the lands of the Lackawanna Iron and Coal Company on the north and east.

The shortness in production is mainly due to the depression in the iron trade, and we cannot look for any improvement in our business until a return of prosperity to it.

Owing to the short time worked, the past year has been one of unusual hardship and suffering amony our employés, and in their praise it may be said that they have accepted their lot with commendable fortitude, and have uniformly conducted themselves as good citizens.

WM. CONNELL,
Superintendent.

Seneca Ravine and ——.

The Pittston Coal Company, Pittston, Luzerne county, or Elmira, New York.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 80,000 tons; value, $160,000.

Whole number of persons employed, 453.

Amount of capital employed in business, $200,000.

Amount paid annually for wages of employés, $130,000.

Amount paid for materials used in business, $16,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	91	. . .	$1 50	60c.	10	120	
Outside laborers, . .	84						
Inside laborers, . . .	66						
Outside mechanics, .	7						
Inside mechanics, .	6						
Outside mule drivers,	12						
Inside mule drivers,	60						
Weigh-master, . . .	3						
Dumpers, ...	6						
Slate pickers, ...	100						
Mining overseers, .	3						
Civil engineers, . .	1						
Engineers, ...	8						
Firemen, ...	4						
Book-keeper, ...	1						
Superintendent, . .	1						

REMARKS.—Of the amount paid out, some $7,000 belongs to construction. Miners working by contract earn about $2 per day. Coal trade very dull.

CHARLES HICOCK, *Superintendent.*

Salem.

S. H. Harman, Lloyd Paxton, John M. Stackhouse, E. R. Drinker, Cyrus Stackhouse, F. P. Drinker, under name of Salem Coal Company, Shickshinny, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product: Product, 1876, 35,000 tons; $65,000.

Whole number of persons employed, 163.

Amount of capital employed in business, $75,000.

Amount paid annually for wages of employés, $41,000.

Amount paid for materials used in business, $6,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract,	40	. . .	$1 63	65	10	175	
Outside laborers, . .	7						
Inside laborers, . . .	40						
Outside mechanics, .	2						
Outside mule drivers,	2						
Inside mule-drivers.	10						
Weigh-master, . . .	1						
Dumpers, ...	1						
Slate pickers, ...	55						
Mining overseers, .	1						

REMARKS.—Trade dull—overproduction. Color of ash, "Fawn." Vein pitching, above water level.

J. H. HARMAN,
Manager.

Black Diamond Colliery.

Charles Hutchison, Kingston, Luzerne county.

Mine located in Mill Hollow, Luzerne county.

Quantity of tons of annual product, 100,000 to 150,000 tons.

Whole number of persons employed, about 300.

Amount of capital employed in business, $250,000.

Amount paid annually for wages of employés, about $80,000 to $120,000.

Amount paid for materials used in business, about $24,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year 1876.	REMARKS.
Miners on contract, .	60	. .	65cts. per car.	. . . .	6 to 10	225	
Miners on wages,* .	. .	. .	. . . .	. . . .	. . .	. . .	*No miners are employed regularly on wages, but only as occasion requires. †Paid by miners. ‡This includes engineers, pumpmen, &c., ...
Outside laborers, . .	16	. .	$1 00 to $1 15	. . . .	10		
Inside laborers, about	†60	. .	. . . .	. . . .	10		
Outside mechanics, .	9	. .	1 72	. . . .	10		
Inside mechanics,‡ .	27	. .	1 50 to 1 75	. . . .	10		
Outside mule drivers,	1	2	1 15	80	10		
Inside mule drivers and runners, . . .	25	10	1 00 to 1 50	50 to 67	10		
Weigh-master, . . .	1	. .	$45 per mo.	. . . .	10		
Dumpers, ...	1	. .	$1 50	. . . .	10		
S. pickers and bosses,	33	40	$0 85 to 1 15	45 to 67	10		
Mining overseers, .	1						

CHARACTERISTICS OF COLLIERY.—The colliery is located about one mile from Kingston borough, on Toby's creek, and is connected to the Lackawanna and Bloomsburg railroad; a very fine location for shipping either north, east or south. At present is operated principally from the Cooper (6 ft.) vein. The coal is a white ash, very fine for family use; free from slate and other impurities; makes very little ash; is an excellent coal for furnace or foundry use, on account of having no sulphur, &c. There is also some production from the vein below, (Burnet, or 12 ft.)—a bright, hard, handsome looking coal, which is also free from impurities, making it a very desirable article.

C. HUTCHISON.
JIM.

The Butler Colliery.

The Butler Colliery Company, Elmira, Chemung county, N. Y., or Pittston, Luzerne county, Pa.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 60,000 tons; value, $120,000.

Whole number of persons employed, 210.

Amount of capital employed in business, $100,000.

Amount paid annually for wages of employés, about $80,000.

Amount paid for materials used in business, about $10,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
			Per day of 10 tons.				
Miners on contract, .	39	. .	$3 76	. . .	7	220$\frac{3}{4}$ days of colliery work.	I am obliged to give average wages of boys.
Miners on wages, helpers, ...	39	. .	2 30	. . .	10		
Outside laborers, . .	3	5	1 40	$0 70	10		Miners and helpers calculate their days by 10 tons—with us the average is about 8 tons per day, or six cars ; seven cars being a full day's work.
Inside laborers, . . .	10	. .	1 60	. . .	10		
Outside mechanics, .	8	. .	2 30	. . .	10		
Inside mechanics, .	2	. .	1 90	. . .	10		
Outside mule drivers,	3	2	1 50	90	10		
Inside mule drivers,	. .	11	. . . . .	80	10		
Weigh-master, . . .	1	. .	1 85	. . .	10		
Dumpers, ...	5	3	1 40	60	10		
State pickers, ...	. .	76	. . . . .	45	10		
Mining overseers, .	1	. .	4 80	. . .	10		
Stable boss, ...	1	. .	2 10	. . .	10		
Outside foreman, . .	1	. .	2 75	. . .	10		

CHARACTERISTICS OF COLLIERY—The colliery is one of the oldest in this county, it having been working almost continuously for quite fifty years. Its production of coal, while not as large as some companies, is noted for its superior condition, and freedom from impurities. The Old Pittston vein has been exhausted some three years. This was sixty feet below the ground's surface, and was what was known as the "fourteen foot" vein. In 1872 we sank to a vein of coal averaging nine feet in thickness, which was struck at a depth of one hundred feet from the surface, which bids fair to last for many years to come.

F. C. DUNNING,
President.

Mount Pleasant.

Pardee, Sons & Co., Hazleton, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 34,924.07 tons; value at mines, $52,386.

Whole number of persons employed, 143.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	41					The average time worked is 115½ dys.	The wages paid to our employés varied nearly every month, with the advance or decline in the price of coal at tide water.
Miners on wages, . .	1						
Outside laborers, . .	17						
Inside laborers, . . .	31						
Outside mechanics, .	8						
Outside mule drivers,	2	1					
Inside mule drivers,	3	9					
Slate pickers, ...	21	7					
Mining overseers, . .	2						

CHARACTERISTICS OF COLLIERY.—At this colliery the Wharton vein of coal is worked.

PARDEE, SONS & CO.
Per C. PARDEE.

Delaware and Hudson Canal Company's Collieries.*

Delaware and Hudson Canal Company, Providence, Luzerne county.

Mines located in Luzerne county.

Quantity of tons and value in dollars of annual product, 1,336,694$\frac{5}{20}$ tons of 2,240℔s; value, $1,735,191 71.

Whole number of persons employed, 6,051.

Amount paid annually for wages of employés, $1,623,077 62.

Amount paid for materials used in business, $247,336 67.

---

*Racket Brook Breaker, Coal Brook, No. 1 Shaft, No. 3 Shaft, Powderly, White Oak, Grassy Island, Olyphant No. 1, Olyphant No. 2, Marvine Shaft, Leggitt's Creek, Von Storch, Mill Creek, Pine Ridge, Laurel Run, Baltimore Slope, Baltimore Tunnel, Plymouth No. 2, Plymouth No. 3, Plymouth No. 4, Plymouth No. 5.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	1,456	. . .	$1 97	. . .	Ten.	One hundred and thirty.	
Miners on wages, . .	163	. . .	1 90	. . .			
Outside laborers, . .	134	. . .	1 46	. . .			
Inside laborers, . .	1,460	. . .	1 61	. . .			
Outside mechanics, .	98	. . .	2 06	. . .			
Inside mechanics, .	56	. . .	2 06	. . .			
Outside mule drivers,	. . .	50	. . .	71c.			
Inside mule drivers,	. . .	517	. . .	85c.			
Weigh-masters, . .	30	. . .	1 54	. . .			
Dumpers, ...	37	. . .	1 46	. . .			
Slate pickers, ...	35	962	1 44	43c.			
Mining overseers, .	23	. . .	3 75	. . .			
Civil engineers, . .	4	9	3 75	$1 48			
Outside foremen, 27; clerks and office, 15, ...	42	. . .	2 78	. . .			
Miscellaneous labor,	975	. . .	1 26	. . .			

A. H. VANDLING,
Superintendent Coal Department.

Cross Creek.

Coxe Bros. & Co., Jeddo, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, $117,722\frac{12}{20}$ tons; $211,152 29.

Whole number of persons employed, 316.

Amount paid annually for wages of employés, $134,635 56.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	108	. . .	$3 10	. . .	10	177¾	
Miners on wages, . .	3	. . .	1 83	. . .	10		
Platform and laborers	8	. . .	1 35	. . .	10		
Inside laborers, . .	56	. . .	1 56	. .	10		
Outside mechanics, .	8	. . .	2 12				
Outside mule drivers,	7	. . .	1 35	. .	10		
Inside mule drivers,	12	19	1 56	$1 06	10		
Dumpers, ...	1	. . .	1 35				
Slate pickers, ...	39	54	1 10	56c.	10		
Mining overseers, .	1	. . .	4 30				
Clerks and bookkeepers, ...	8	. . .	2 21				
Bosses, ...	5	. . .	2 08				

COXE BROS. & CO.

Woodside Colliery.

Coxe Brothers & Co., Jeddo, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 31,155.06 tons; $55,111 12.

Whole number of persons employed, 106.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	36	. . .	$3 10	. . .	10	126¾	
Miners on wages, . .	4	. . .	1 83	. . .	10		
Platform and loaders,	3	. . .	1 35	. . .	10		
Inside laborers, . .	23	. . .	1 56	. . .	10		
Outside mechanics, .	3	. . .	2 12	. . .	10		
Inside mule drivers,	3	5	1 56	$1 06	10		
Dumpers, ...	1	. . .	1 25	. . .	10		
Slate pickers, . . .	13	14	1 10	56	10		
Mining overseers, .	1	. . .	4 30	. . .	10		
Outside boss, ...	1	. . .	2 25	. . .	10		

COXE BROS. & CO.

Oak Dale, No. 1.

George B. Markle & Co., Jeddo, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 73,108.02 tons; estimated, $146,216.

Whole number of persons employed, 178.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	86						
Outside laborers, . .	14	. . .	$1 35	. . .	10	122	
Inside laborers, . . .	7	4	1 48	$0 68	10	122	
Outside mechanics, .	4	1	1 92	1 10	10	122	
Inside mechanics, .	4	. . .	1 86	. . .	10	122	
Outside mule drivers,	. . .	2	1 10	. . .	10	122	
Inside mule drivers,	11	1	1 50	95	10	122	
Dumpers, ...	1	. . .	1 35	. . .	10	122	
Slate-pickers, ...	20	19	1 09	45	10	122	
Mining overseers, .	1	. . .	. . .	. . .	. . .	. . .	$75 per month.

GEORGE B. MARKLE & CO.,
Per HAMMANN.

Highland, No. 2.

Geo. B. Markle & Co., Jeddo, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 14,123.07 tons; estimated at $28,246.

Whole number of persons employed, 80.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	26						
Outside laborers, . .	7	. . .	$1 35	. . .	10	49	
Inside laborers, . . .	3	. . .	1 48				
Outside mechanics, .	5	. . .	1 85				
Inside mule drivers,	3	. . .	1 50				
Dumpers, ...	1	. . .	1 35				
State pickers, ...	15	19	1 09	$0 45			
Mining overseers, .	1	. . .	$75 per mo.				

GEO. B. MARKLE & CO.,
Per HAMMANN.

Oak Dale, No. 2.

Geo. B. Markle & Co., Jeddo, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 57,076.13 tons; estimated at $114,152.

Number of persons employed, 152.

CLASSIFICATION.	Number of men.	Number of boys.	Aver'ge daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	76						
Outside laborers, . .	18	. . .	$1 35	. . .	10	119	
Inside laborers, . . .	5	5	1 48	$0 68			
Outside mechanics, .	4	1	1 92	1 10	10		
Inside mechanics, . .	2	. . .	1 79				
Outside mule drivers,	. . .	2	1 06				
Inside mule drivers,	9	3	1 50	95			
Dumpers, ...	1	. . .	1 35				
Slate pickers, ...	9	17	1 09	45			
Mining overseers, .	1	. . .	$75 per mo.				

GEO. B. MARKLE & CO.,
Per HAMMANN.

Highland, No. 1.

George B. Markle & Co., Jeddo, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 83,968.11 tons; estimated, $167,936.

Whole number of persons employed, 162.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	78	. . .	. . . .	. . . .	. . .	190	
Outside laborers, . .	13	. . .	$1 35	. . .	10		
Inside laborers, . .	5	5	1 48	68c.	10		
Outside mechanics, .	4	. . .	1 92	. .	10		
Inside mechanics, .	1	1	1 91	$1 13	10		
Outside mule drivers,	. . .	2	. . . .	1 06	10		
Inside mule drivers,	10	3	1 50	95	10		
Dumpers, ...	1	. .	1 35	. . .	10		
Slate-pickers, ...	22	16	1 09	45	10		
Mining overseers, .	1	. . .	$75 per mo.				

GEO. B. MARKLE & CO.,
Per HAMMANN.

East Sugar Loaf.

Linderman, Skeer & Co., Stockton, Luzerne county.

Mine located in Stockton, Luzerne county.

Quantity of tons and value in dollars of annual product, tonnage, 186,426.08; estimated, $372,852.

Whole number of persons employed, 500.

Amount paid annually for wages of employés, $116,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	148					190 days.	
Miners on wages, . .	25	. . .	$2 11	. . .	8		
Outside laborers, . .	91	. . .	1 38	. . .	10		
Inside laborers, . .	71	. . .	1 83	. . .	8		
Outside mechanics, .	13	. . .	2 66	. . .	10		
Outside mule drivers,	9	. . .	1 00	. . .	10		
Inside mule drivers,	31	. . .	1 70	. . .	10		
Dumpers, ...	7	. . .	1 33	. . .	10		
Slate pickers, ...	. . .	90	. . .	56c.	10		
Mining overseers, .	3	. . .	2 86	. . .	10		
Engineers, ...	12	. . .	2 00	. . .	12		

CHARACTERISTICS OF COLLIERY.—Three breakers, all on Mammonth vein.

WILLIAM AIREY,
Superintendent.

Humboldt.

Linderman, Skeer & Co., Hazleton, Luzerne county.

Mine located in Luzerne county.

Quantity in tons and value in dollars of annual product, $40,605\frac{17}{20}$ tons; value, at mines, about $70,000.

Whole number of persons employed, 140.

Amount paid annually for wages of employés, about $55,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners, on contract,	35	. . .	*$ 75	. . .	10	136	* Average per car. Miners on contract were paid on an average during 1876, 39$\frac{1}{5}$c. ℔ ton for every ton they mined.
Miners on wages, . .	5	. . .	2 00				
Outside laborers, . .	23	. . .	1 50				
Inside laborers, . .	19	. . .	2 00				
Outside mechanics, .	1	. . .	2 50				
Outside mule drivers,	4	. . .	1 00				
Inside mule drivers,	10	. . .	1 93				
Dumpers, ...	1	. . .	1 00				
Slate pickers, ...	10	20	1 33	50c.			
Mining overseers, . .	1						
Engineers, ...	4	. . .	2 33				
Firemen, ...	4	. . .	1 75				

REMARKS.—The coal from Humboldt colliery is a rough fractured white ash. Burns quite freely, with an intense heat.

LINDERMAN, SKEER & CO.

Hillside.

Hillside Coal and Iron Company, Scranton, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 67,359.05 tons; $135.392 09.

Whole number of persons employed, 333.

Amount paid annually for wages of employés, $88,500.

Amount paid for materials used in business, $14,166 64.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	60	. . .	$2 30	. . .	7	230	
Outside laborers, . .	60	. . .	1 55	. . .	7	235	
Inside laborers, . .	110	. . .	1 90	. . .	7	230	
Outside mechanics, .	6	. . .	2 06	. . .	9	300	
Inside mechanics, .	1	. . .	2 06	. . .	7	230	
Outside mule-drivers,	. .	6	. . .	$0 71	7	230	
Inside mule-drivers,	. . .	25	. . .	85	7	230	
Door-boys, ...	. . .	4	. . .	55	7	230	
Weigh-master, . .	1	. . .	1 54	. . .	7	230	
Dumpers, ...	4	. . .	1 49	. . .	7	230	
Slate-pickers, ...	2	50	1 44	43	7	230	
Mining overseers, .	2	. . .	3 60	. . .	10	310	
Civil engineers, . .	1	. . .	3 60	. . .	10	310	
Clerk, ...	1	. . .	2 10	. . .	10	310	

CHARACTERISTICS OF COLLIERY.—This colliery is situated at Pleasant Valley. The outside works consist of large double breaker, with a full capacity for one thousand tons per day. Openings consist of single shaft and second opening, or man-way. Railroad branches on Lehigh Valley and D. and H. Canal Company's railroad.

SAMUEL HINES,
Treasurer and Agent.

Carbon Hill.

Glenwood Coal Company, Scranton, Luzerne county.

Mine located in Luzerne county.

Quantity in tons and value in dollars of annual product, 16,325.19 tons; $32,815 15.

Whole number of persons employed, 219.

Amount paid annually for wages of employes, $39,385.

Amount paid for materials used in business, $9,013.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	35	. . .	$2 25	. . .	8	145	
Outside laborers, . .	43	. . .	1 50	. . .	8	145	
Inside laborers, . .	60	. . .	1 70	. . .	8	145	
Outside mechanics, .	8	. . .	2 25	. . .	9	185	
Inside mechanics, .	1	. . .	2 10	. . .	8	145	
Outside mule-drivers,	. . .	4	. . .	$0 75	8	145	
Inside mule-drivers,	. . .	20	. . .	90	8	145	
Door-boys, ...	. . .	5	. . .	60	8	145	
Dumpers, ...	4	. . .	1 50	. . .	8	145	
Slate-pickers, ...	2	34	1 25	47	8	145	
Mining overseers, .	2	. . .	3 75	. . .	10	225	
Clerk, ...	1	. . .	1 75	. . .	10	225	

CHARACTERISTICS OF COLLIERY.—Situated on Lackawanna and Bloomsburg railroad. Single breaker, capacity four hundred tons per day. Openings, two shafts and one slope.

Operations at this colliery were suspended September, 1876.

SAMUEL HINES,
Treasurer and Agent.

Spring Brook.

Glenwood Coal Company, Scranton, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 47,638.09 tons; $95,753 28.

Whole number of persons employed, 260.

Amount paid annually for wages of employés, $62,550.

Amount paid for materials used in business, $14,315.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	60	. . .	$3 00	. . .	8	155	
Miners on wages, . .	2	. . .	2 15	. . .	8	155	
Outside laborers, . .	35	. . .	1 55	. . .	8	155	
Inside laborers, . .	75	. . .	2 00	. . .	8	165	
Outside mechanics, .	7	. . .	2 50	. . .	9	225	
Inside mechanics, .	1	. . .	2 10	. . .	8	165	
Outside mule drivers,	. . .	5	. . .	80c.	8	155	
Inside mule drivers,	. . .	20	. . .	90c.	8	155	
Door boys, ...	. . .	5	. . .	60c.	8	155	
Weigh-master, . . .	1	. . .	1 54	. . .	8	155	
Dumpers, ...	4	. . .	1 55	. .	8	155	
Slate pickers, ...	4	38	1 25	50c.	8	155	
Mining overseers, .	2	. . .	3 75	. . .	10	250	
Clerk, ...	1	. . .	1 75	. . .	10	250	

CHARACTERISTICS OF COLLIERY.—Situated on D. & H. Canal Company's railroad, at Moosic; single breaker; capacity, six hundred tons per day; openings, two drifts and man-way. Operations at this colliery were suspended September, 1876.

SAMUEL HINES,
Treasurer and Agent.

Kingston Mines.

Waterman & Beaver, Danville, Montour county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 305,496 tons; $520,000.

Whole number of persons employed, 706.

Amount of capital employed in business, $600,000.

Amount paid annually for wages of employés, $199,867 53

Amount paid for materials used in business, $59,941 02.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	328	. . .	$1 75 1 94	. . . .	. . . . . .	80 105	
Outside laborers, . .	89	. . .	1 35 1 50	. . . .	. . . . . .	80 105	
Inside laborers, . . .	6	. . .	1 90 2 16	. . . .	. . . . . .	100 150	
Outside mechanics, .	5 22	. . . . . .	2 00 2 27 1 80 2 00	. . . .	. . . .	122 189 100 150	
Inside mechanics, . .	4	. . .	2 25 2 50	. . . .	. . . . . .	100 150	
Outside mule drivers,	. . .	4	. . . .	$0 93 1 03	. . . . . .	80 105	
Inside mule drivers,	44	13	1 44 1 60	93 1 03	. . . . . .	80 105	
Weigh-master, . . .	. . .	. . .	. . . .	. . . .	. . .	. . .	Paid by month. Average wages, $39 per month.
Dumpers, ...	7	. . .	1 35 1 50	. . . .	. . . . . .	80 105	
Slate pickers, ...	40	102	93 1 03	50 55	. . . . . .	80 105	
Mining overseers, . .	4	. . .	. . . .	. . . .	. . .	. . .	Monthly wages, average $90.
Door boys, ...	. .	38	. . . .	61 68	. . . . . .	80 105	

WATERMAN & BEAVER.

Beaver Mines.

Waterman & Beaver, Danville, Montour county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 20,130 tons; value, $27,500.

Whole number of persons employed, 26.

Amount paid annually for wages of employés, $14,547 42.

Amount paid for materials used in business, $3,070 78.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract and wages, ...	9	. . .	. . . . . .	. . .	. . .	. . .	Average per month, $100 00.
Outside and inside laborers, ...	4	. . .	$1 00 1 55 90 1 40				
Outside and inside mechanics, ...	2	. . .	1 89				
Outside and inside mule drivers, . . .	5	1	1 12 1 02	$0 80			
Weigh-master, . . .	1	. .	1 89				
Slate-pickers, ...	. . .	3	. . . . . .	56 52			
Mining overseers, .	1	. . .	. . . . . .	. . .	. . .	. . .	Average monthly pay, $70 00.

WATERMAN & BEAVER.

"Nottingham," No. 15,

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Whole number of persons employed, 535.

Amount paid annually for wages of employés, $168,450.

Amount paid for materials used in business, $20,700.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	125	. . .	$2 55	. . .	10	165¾	
Miners on wages, . .	10	. . .	2 25	. . .	10	165¾	
Outside laborers, . .	50	. . .	1 50	. . .	10	165¾	
Inside laborers, . .	175	. . .	1 70	. . .	10	165¾	
Outside mechanics, .	6	. . .	2 25	. . .	10	165¾	
Inside mechanics, .	4	. . .	2 25	. . .	10	165¾	
Outside mule drivers,	. . .	8	. . .	$1 00	10	165¾	
Inside mule drivers,	. . .	25	. . .	1 10	10	165¾	
Weigh-master, . . .	1	. . .	. . .	1 50	10	165¾	
Slate-pickers, . . .	10	90	1 25	50 90	10	165¾	
Mining overseers, .	1	. . .	. . .	. . .	10	165¾	$100 per month.
Door-boys, ...	. . .	30	. . .	85	10	165¾	

F. E. TIFFANY, *Superintendent.*

“Reynolds,” No. 16.

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Whole number of persons employed, 300.

Amount paid annually for wages of employés, $88,840.

Amount paid for materials used in business, $13,940.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	70						
Miners on wages, . .	5	. . .	$2 25				
Outside laborers, . .	25	. . .	1 50				
Inside laborers, . .	97	. . .	1 70				
Outside mechanics, .	5	. . .	2 25				
Inside mechanics, .	3	. . .	2 25				
Outside mule drivers,	. . .	8	. . .	$1 00			
Inside mule drivers,	. . .	20	. . .	1 10			
Weigh-master, . . .	1	. .	1 50				
Slate pickers, ...	10	40	1 25	50c to 90c			
Mining overseers, .	1	. . .	*$100				* Per month.
Door boys, ...	. . .	15	. . .	85c.			

F. E. TIFFANY,
Superintendent.

Kidder, No. 3.

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 69,448.06 tons; estimated value, $138,896.

Whole number of persons employed, 264.

Amount paid annually for wages of employés, $81,200.

Amount paid for materials used in business, $12,400.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	46	. .	$2 75 to 3 25	. .	10	175	
Outside laborers, . .	39	. .	1 50 to 1 90	. .	10	175	
Inside laborers, . .	71	10	1 40 to 2 25	80c. to $1 00	10	175	
Outside mechanics, .	1	. . .	2 32	. . .	10	175	
Inside mechanics, .	10	. .	2 25 to 2 32	. .	10	175	
Outside mule drivers,	4	. . .	1 50	. . .	10	175	
Inside mule drivers,	16	. .	1 00 to 1 90	. .	10	175	
Outside foreman, . .	1	. . .	*$75				*Per month.
Slate pickers, ...	. . .	63	. .	50c. to 1 00	10	175	
Mining overseers, .	1	. . .	*$125	. . .	10	175	
Fire bosses, ...	2	. . .	*82	. . .	10	175	

Breaker, No. 19.

Lehigh and Wilkesbarre Coal Company, Wanamie, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 109,846 tons; estimated value, $219,692.

Whole number of persons employed, 581.

Amount paid annually for wages of employés, $150,595.

Amount paid for materials used in business, $30,980.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	20	. . .	$2 60	. . . . . .	7½ to 10	148	
Miners on wages, . .	117	. . .	2 25	. . . . . .	7½ to 10	148	
Outside laborers, . .	87	. . .	1 35	. . . . . .	7½ to 10	148	
Inside laborers, . .	167	. . .	1 90	. . . . . .	7½ to 10	148	
Outside mechanics, .	10	. .	2 10 and 2 03	. . . . .	7½ to 10	148	
Inside Mechanics, .	3	. . .	2 10	. . . . . .	7½ to 10	148	
Outside mule-drivers,	. . .	4	. . .	$1 35	7½ to 10	148	
Inside mule-drivers,	. . .	27	. . .	1 60	7½ to 10	148	
Dumpers, ...	8	. . .	1 35	. . . . . .	7½ to 10	148	
Slate-pickers, ...	. . .	135	1 00	40c. to 1 00	7½ to 10	148	
Mining overseers, .	3	. . .	3 50	. . . . . .	7½ to 10	148	

REMARKS.—Breaker No. 17 not working. Breaker No. 18 not working.

W. T. LEAS,
Superintendent.

"Gaylord," No. 13.

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Whole number of persons employed, 400.

Amount paid annually for wages of employés, $135,850.

Amount paid for materials used in business, $17,740.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	105	. . .	Av'ge $2 65	. . . .	10	180 2/10	
Miners on wages, . .	10	. . .	2 25	. . . .	10		
Outside laborers, . .	27	. . .	1 50	. . . .	10		
Inside laborers, . .	125	. . .	1 70	. . . .	10		
Outside mechanics, .	7	. . .	2 25	. . . .	10		
Inside mechanics, .	4	. . .	2 25	. . . .	10		
Outside mule-drivers,	1	7	$1 00 to 1 25	$1 00	10		
Inside mule-drivers,	10	14	1 70	1 10	10		
Weigh-master, . . .	1	. . .	1 50	. . . .	10		
Dumpers, ...	3	. . .	1 50	. . . .	10		
Slate-pickers, ...	14	58	1 25	$0 50 to 90	10		
Mining overseers, .	1	. . .	. . . .	. . . .	10	. . .	$100 per month.
Door-boys, ...	. . .	13	. . . .	85	10		

F. E. TIFFANY, *Superintendent.*

Stanton No. 7.

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 70,510,11 ; estimated value, $141,020.

Whole number of persons employed, 497.

Amount paid annually for wages of employés, $155,694.

Amount paid for materials used in business, $29,684.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	97	. .	$2 75 to 3 25	. . . .	10	142	
Outside laborers, . .	71	. .	1 50 to 1 90	. . . .	10	142	
Inside laborers, . .	159	29	1 40 to 2 25	80c. to 1 00	10	142	
Outside mechanics, .	10	.	2 25 to 2 32	. . . .	10	142	
Inside mechanics, .	18	. .	2 25 to 2 32	. . . .	10	142	
Outside mule drivers,	5	. .	1 50	. . . . .	10	142	
Inside mule drivers,	19	. .	1 00 to 1 90	. . . .	10	142	
Outside foreman, . .	. .	. .	$75 per month.	. . . .	10	142	
Slate pickers, ...	. .	85	. . . .	50c. to 1 00	10	142	
Mining overseers, .	1	. .	$125 per month.	. . . .	10	142	
Fire bosses, ...	3	. .	$82 per month.	. . . .	10	142	

"Lance" No. 11.

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Whole number of persons employed, 330.

Amount paid annually for wages of employés, $105,450.

Amount paid for materials used in business, $15,460.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	68	. . .	Average $2 60		Ten.	148¾.	
Miners on wages, . .	9	. . .	2 25				
Outside laborers, . .	22	. . .	1 50				
Inside laborers, . .	130	. . .	1 70				
Outside mechanics, .	5	. . .	2 25				
Inside mechanics, .	4	. . .	2 25				
Outside mule drivers,	. . .	8	. . . .	$1 00			
Inside mule drivers,	6	14	1 70	1 10			
Weigh-master, . . .	1	. . .	1 50				
Dumpers, ...	4	. . .	1 50				
Slate pickers, ...	3	47	1 25	50 to 90			
Mining overseers, .	1	. . .	$100 month.				
Door boys, ...	. . .	8	. . . .	85			

REMARKS.—Breaker No. 12 not working.

F. E. TIFFANY,
Superintendent.

No. 10 Colliery, Sugar Notch.

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 82,400 tons; estimated, $164,800.

Whole number of persons employed, 305.

Amount paid annually for wages of employés, $114,038 14.

Amount paid for materials used in business, $22,057 15.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	80	. . .	$2 68	. . . .	10	157	
Miners on wages, . .	7	. . .	2 03	. . . .	10	157	
Outside laborers, . .	11	. . .	1 35	. . . .	10	157	
Inside laborers, . . .	84	. . .	1 90	. . . .	10	157	
Outside mechanics, .	1	. . .	2 25	. . . .	10	157	
Inside mechanics, .	7	. . .	2 03	. . . .	10	157	
Outside mule drivers,	. . .	5	. . . .	$1 00	10	157	
Inside mule drivers,	. . .	7	. . . .	1 40	10	157	
Dumpers, ...	6	. . .	1 35	. . . .	10	157	
State pickers, ...	27	60	1 35	70	10	157	
Mining overseers, .	2	. . .	4 00	. . . .	10	157	
Door boys.	. . .	8	. . . .	80	10	157	

REMARKS.—Breaker No. 9 not working.

M. L. TIFFANY,
Superintendent.

Hartford, No. 6.

Lehigh and Wilkesbarre Coal Company, Ashley, Luzerne county.

Mine located in Ashley, Luzerne county.

Whole number of persons employed, 521.

Amount paid annually for wages of employés, $137,258.

Amount paid for materials used in business, $32,880.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	107	. . .	$2 50	. . . .	. . . .	145	
Miners on wages, . .	17	. . .	2 03	. . . .	9		
Outside laborers, . .	37	. . .	1 35	. . . .	10		
Inside laborers, Co.,	33	. . .	1 67	. . . .	9		
Outside mechanics, .	12	. . .	2 03	. . . .	10		
Inside mechanics, engineers, ...	4	. . .	2 10	. . . .	12		
Outside mule drivers,	. . .	8	. . .	$1 15	10		
Inside mule drivers,	17	. . .	1 75	. . . .	9		
Door boys, ...	. . .	12	. . . .	85	9		
Dumpers, ...	2	. . .	1 67	. . . .	10		
Slate pickers, ...	. . .	137	. . . .	80	10		
Mining overseers, .	2	. . .	4 00	. . . .	12		
Miners' laborers, . .	133	. . .	1 90	. . . .	9		

REMARKS.—Breaker No. 8 not working.

M. L. TIFFANY,
Superintendent.

Empire, No. 4.

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons, and value in dollars of annual product, 205,502.06 tons; estimated, $411,004.

Whole number of persons employed, 820.

Amount paid annually for wages of employés, $255,102.

Amount paid for materials used in business, $43,800.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	155	. .	$2 75 to 3 25	. .	10	166	
Outside laborers, . .	76	. .	1 50 to 1 90	. .	10	166	
Inside laborers, . . .	288	60	1 40 to 2 25	80c. to $1 00	10	166	
Outside mechanics, .	7	. .	2 25 to 2 32	. .	10	166	
Inside mechanics, .	22	. .	2 25 to 2 32	. .	10	166	
Outside mule drivers,	. . .	5	1 50	. . .	10	166	
Inside mule drivers,	51	. .	1 00 to 1 90	. .	10	166	
Outside foreman, . .	1	. . .	*$75	. . . .	10	166	* Per month.
Dumpers, ...	6	. . .	1 50	. . .	10	166	
Slate pickers, ...	. . .	145	. .	50c. to 1 00	10	166	
Mining overseers, .	1	. . .	*$125	. . .	10	166	
Fire bosses, ...	3	. . .	*$82	. . .	10	166	

REMARKS.—Empire, No. 5, not working.

Diamond, No. 1.

Lehigh and Wilkesbarre Coal Company, Wilkesbarre, Luzerne county.

Mine located in Luzerne county.

Quantity of tons and value in dollars of annual product, 160,016.14; estimated, $320,032.

Whole number of persons employed, 840.

Amount paid annually for wages of employés, $185,900.

Amount paid for materials used in business, $49,500.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	171	. .	$2 75 to 3 25	. .	10	148	
Miners on wages, . .	8	. . .	2 50	. . .	10	148	
Outside laborers, . .	107	. .	1 50 to 1 90	. .	10	148	
Inside laborers, . . .	269	72	1 40 to 2 25	80c. to $1 00	10	148	
Outside mechanics, .	12	. .	2 25 to 2 32	. .	10	148	
Inside mechanics, .	19	. .	2 25 to 2 32	. .	10	148	
Outside mule drivers,	9	. . .	1 50	. . .	10	148	
Inside mule drivers,	42	. .	1 00 to 1 90	. .	10	148	
Outside foreman, . .	1	. . .	*$70	. . .	10	148	* Per month.
Slate pickers, ...	. . .	130	. .	50c. to 1 00	10	148	
Mining overseers, .	2	. . .	*$125	. . .	10	148	
Fire bosses, ...	3	. . .	*$82	. . .	10	148	

Tunnel No. 1, and Slope No. 1.

Susquehanna Coal Company, Nanticoke and Wilkesbarre, Luzerne county.

Mine located in Nanticoke, Luzerne county.

Quantity of tons and value in dollars of annual product for the year 1876, 178,280 tons; $321,438 84.

Whole number of persons employed, 720.

Amount of capital employed in business, $2,136,800; bonded indebtedness, $2,000,000.

Amount paid annually for wages of employés, $678,804 86, for the total three breakers.

Amount paid for materials used in business, for the total three breakers, $228,206 77.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	100	. .	$1 01½ per car.	. . .	10	249¾	
Miners on wages, . .	21	. . .	2 25	. . . .	10	249¾	
Outside laborers, . .	95	. . .	1 40	. . . .	10	249¾	
Inside laborers, . .	250	. . .	1 98	. . . .	10	249¾	
Outside mechanics, .	46	. . .	2 25	. . . .	10	249¾	
Inside mechanics, .	8	. . .	2 25	. . . .	10	249¾	
Outside mule drivers,	6	8	1 53	$1 10	10	249¾	
Inside mule drivers,	3	29	1 98	1 08 to 1 20	10	249¾	
Weigh-master, . . .	3	. . .	2 25	. . . .	10	249¾	
Dumpers, ...	6	. . .	1 40	. . . .	10	249¾	
Slate pickers, ...	12	90	1 00	40c. to 80c.	10	249¾	
Mining overseers, .	7	. .	$100 per month.	. . .	10	249¾	
Civil engineers, . . .	2	. . .	$2 75	. . . .	10	249¾	
Stable men, ...	3	. . .	2 00	. . .	10	249¾	
Watchmen, ...	4	. . .	1 40	. . . .	10	249¾	
Door boys, ...	18	. .	90c. to 77c.	. . .	10	249¾	

CHARACTERISTICS OF COLLIERY.—This company have in their employ, at mines, 7 clerks, at salaries from $50 to $116 per month; 1 coal inspector, $60 per month; 1 dispatcher, $70 per month.

These rates are for the month of August, 1876. On the 1st of September, there was a reduction of ten per cent., after which there was no change of rates made during the balance of the year.

These collieries are located at Nanticoke, Luzerne county, Pa., and designated "East and West Nanticoke," Nos. 1, 2, and 4 being on the east side of the Susquehanna, and No. 3 on the west side, connected by a railroad and wagon bridge, five spans, one hundred and fifty-two feet each. The coal is shipped over the Pennsylvania canal, the Lackawanna and Bloomburg railroad, the Lehigh Valley railroad, and a branch of the Central railroad of New Jersey.

The East Nanticoke collieries consist of three tunnels, one drift, three slopes, and two shafts, which supply three breakers, as follows: No. 1 tunnel, No. 1 slope, and No. 2 shaft. Mines the Buck Mountain or bottom vein, averaging eight feet in thickness, and supply the No. 1 breaker.

No. 2 breaker is supplied by No. 2 tunnel and Honey Pot drift, from the said "Buck Mountain vein;" No. 4 tunnel, from the "Ross vein," averages five feet in thickness; No. 2 slope, from the "Hillman vein," eight feet thick; No. 4 slope, from the "Mills vein," ten feet thick, and No. 1 shaft, from the said "Hillman vein," eight feet, and "Forge vein," seven feet in thickness. Shaft Nos. 1 and 2 are new openings, with mine workings in process of development, and intended to supply breaker in contemplation to be built. No. 1 shaft is five hundred and forty feet deep to the "Forge vein," which is the bottom split of what is known as the Baltimore vein.

No. 2 shaft is six hundred feet deep to the Buck Mountain or bottom vein, the red ash bench of which is not usually worked upon the east side of river.

The following is a general section of the coal strata at East Nanticoke, from Nos. 1 and 2 shafts:

	Feet.
Surface measure,	110
George vein coal,	5
Measures,	175
Mills vein coal,	10
Measures,	73
Hillman vein,	8
Measures,	100
Cooper vein,	5
Measures,	40
Forge vein,	7
Measures,	155
Twin vein,	14
Measures,	150
Ross vein,	5
Measures,	170
Buck Mountain, (bottom vein,)	8
	1,035
Slate measures,	10
Red ash bench,	10
Total,	1,055

Breaker No. 1 has a capacity daily of 725 gross tons; do. No. 2, 1,400 gross tons. Breaker No. 4 is used to ship coal by canal only, and is not supplied direct from the mines, but from coal stocked during winter, from Nos. 1 and 2 breakers.

The machinery to operate the East Nanticoke mines and breakers consist of:

4 rolls, 11 screens, 7 locomotives, (mine,) 8 hoisting engines, of 1,920 horse power; 3 breaker engines, 147 horse power; 6 fan engines and fans, 205 horse power; 8 pumping engines, 415 horse power; 8 pumps, capacity 3,100 gallons per minute; 74 steam boilers, 2,900 horse power.

J. W. STICKNEY,
General Superintendent.

Tunnels Nos. 2 and 4—Slopes 2 and 4, and Honey Pot.

Susquehanna Coal Company, Nanticoke and Wilkesbarre, Luzerne county.

Mine located in Nanticoke, Luzerne county.

Quantity of tons and value in dollars of annual product, 257,245 tons; $463,812 73.

Whole number of persons employed, 693.

Amount of capital employed in business—See breaker No. 1.

Amount paid annually for wages of employés—See breaker No. 1.

Amount paid for materials used in business—See breaker No. 1.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	164	. .	$1 01½ per car.	. . .	10	232½	
Miners on wages, . .	2	. . .	2 25	. . . .	10	232½	
Outside laborers, . .	80	. . .	1 40	. . . .	10	232½	
Inside laborers, . . .	230	. .	1 83 to 1 98	. . .	10	232½	
Outside mechanics, .	13	. . .	2 25	. . . .	10	232½	
Inside mechanics, .	7	. .	2 00 to 2 25	. . .	10	232½	
Outside mule drivers,	1	5	1 25	$1 10	10	232½	
Inside mule drivers,	4	32	1 50 to 1 75	1 08 to 1 25	10	232½	
Weigh-master, . . .	1	. . .	2 25	. . . .	10	232½	
Dumpers, ...	5	. . .	1 60	. . . .	10	232½	
Slate pickers, . . .	25	106	1 00	40c. to 90c.	10	232½	
Mining overseers, .	3	. .	$80 per month.	. . .	. . .	. . .	
Civil engineers, . .	. . .	. . .	. . . .	. . . .	. . .	. . .	See breaker No. 1.
Door boys, ...	. . .	15	. . . .	77c.	10	232½	

J. W. STICKNEY,
General Superintendent.

No. 3.

Susquehanna Coal Company, Grand Tunnel, Luzerne county.

Mine located in West Nanticoke, Luzerne county.

Quantity of tons and value in dollars of annual product for 1876, 147,836 tons; value, $266,548 31.

Whole number of persons employed, 422.

Amount of capital employed in business, see Breaker, No. 1.

Amount paid annually for wages of employés, see Breaker, No. 1.

Amount paid for materials used in business, see Breaker, No. 1.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	112	. . .	$1 01½†	. . .	10	233	Breaker worked two hundred and thirty-three days.
Miners on wages, . .	6	. . .	2 25				
Outside laborers, .	30	. . .	1 40				
	26	. . .	1 58				
Inside laborers, .	27	. . .	1 78				
Outside mechanics, .	16	. . .	2 25	. . .	. .	312	
Inside mechanics, .	8	. . .	2 25	. . .	. . .	312	
Outside mule drivers,	2	2	1 53	$1 10			
Inside mule drivers,	5	16	1 65	1 17			
Weigh-master, . . .	1	. . .	1 75	. . .	. . .	312	
Dumpers, ...	2	. . .	2 07				
Slate-pickers, ...	50	96	1 00	70			
Mining overseers, .	3	. . .	3 85	. . .	. . .	312	
Civil engineers,* . .	. . .	. . .	. . . .	. . .	. . .	312	
Door-boys, ...	. . .	14	. . . .	77			
Slate bosses, ...	5	. . .	1 66				

* See Breaker, No. 1. † Per car.

Characteristics of Colliery.—The West Nanticoke colliery consist of No. 3 Tunnel and No. 3 Slope, mining the Buck Mountain, or bottom vein, averaging twenty-four feet thick, with its red ash benches, which are usually worked, and supplies No. 3 Breaker, which has a daily capacity of eight hundred and forty tons.

The machinery used is five rolls, fifteen screens, two hoisting engines, of three hundred and seventy horse-power, one breaker engine, seventy-five horse-power, with three pumps, of four hundred gallons capacity, and twenty steam boilers, of eight hundred horse-power.

J. W. STICKNEY,
General Superintendent.

SUSQUEHANNA COUNTY.

Forest City.

Hillside Coal and Iron Company, Scranton, Luzerne county.

Mine located in Susquehanna county.

Quantity of tons and value in dollars of annual product, 12,253.15 tons; value, $24,630 04.

Whole number of persons employed, 40.

Amount paid annually for wages of employés, $7,780.

Amount paid for materials used in business, $2,833 33.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	8	. . .	$1 80	. . .	7	160	
Outside laborers, . .	8	. . .	1 40	. . .	7	200	
Inside laborers, . .	12	. . .	1 50	. . .	7	160	
Outside mechanics, .	2	. . .	1 75	. . .	10	200	
Inside mechanics, .	1	. . .	1 75	. .	7	160	
Outside mule drivers,	1	1	1 50	75	7	160	
Inside mule drivers,	. . .	3	. . .	1 10	7	160	
Dumpers, ...	1	. . .	1 40	. . .	7	160	
Slate-pickers, ...	1	1	1 40	35	7	160	
Mining overseers, .	1	. . .	2 25	. . .	10	310	

CHARACTERISTICS OF COLLIERY.—This colliery is situated at the head of the Lackawanna Valley, above Carbondale; has been in operation one year; consists of a single drift, opening screens, and chutes; with a full capacity of about three thousand tons per month. Coal shipped on the Jefferson branch of the Erie railway.

SAMUEL HINES,
Treasurer and Agent.

Beaver Meadow Colliery, of E. B. Ely & Co.

E. B. Ely & Co., New York city, P. O. box 262, or Trinity building, room No. 12.

Mine located in Beaver Meadow, Carbon county, Pa.

Quantity of tons and value in dollars of annual product, 65,690 tons; value, $131,380.

Whole number of persons employed, 200.

Cannot give amount of capital employed, as I only keep the books at the mines, which do not include the whole business.

Paid employés for 1876, $85,725 43.

Miners on contract, 35 men, 75 boys; average daily wages paid men, $2 00; average daily wages paid boys, 95 cents; hours worked per day, 10; days in operation during year, 135; miners on wages, firemen, mechanics, pumpmen, overseer, machinists, and superintendent are paid every day, except Sunday, and firemen and pumpmen are paid Sundays also; outside laborers, 35; inside laborers, 35; outside mechanics, 7; inside mechanics, 4; outside mule drivers, 7; inside mule drivers, 9; slate pickers, 65; mining overseers, 2; superintendent, 1.

The above is as near correct as I am able to make it.

Respectfully,

E. B. ELY,
Senior Book-keeper.

Centralia Lehigh Colliery.

Doctor G. M. Prevost, Centralia, Columbia county.

Mine located in Columbia county.

Quantity of tons and value in dollars of annual product, 39,000 tons in 1876; value at present prices, about $70,000. (This was only four months work.)

Whole number of persons employed, 300.

Amount of capital employed in business, $75,000.

Amount paid annually for wages of employés, about $8,000 per month, when we work full time.

Amount paid for materials used in business, about $2,000 per month.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	70	. . .	$2 50		Eight hours in winter. Ten hours in summer.	Four months in 1876; built a new breaker during the summer.	
Miners on wages, . .	10	. . .	1 66				
Outside laborers, . .	30	20	7 20				
Inside laborers, . . .	30	5	9 04 8 32				
Outside mechanics, .	4	. . .	2 00				
Inside mechanics, .	2	. . .	2 25				
Outside mule drivers,	. . .	8	80				
Inside mule drivers,	6	4	1 00				
Dumpers, ...	2	. . .	1 00				
Slate pickers, ...	. . .	100	60				
Mining overseers, .	2	. . .	2 50				
Civil engineers, . . .	1	. . .	8 00				
Stationary engineers,	6	. . .	2 00				

CHARACTERISTICS OF COLLIERY.—The Centralia Lehigh Colliery is situated on the south dip of the Centralia basin, on lands belonging to the Locust Mountain Coal and Iron Company, and leased and operated by Doctor G. M. Prevost, of Camden, New Jersey. The workable veins embraced in the lease are: The Mammoth, 24 feet thick; the Skidmore, 15 feet thick; and the Buck Mountain, 20 feet thick. The latter vein has not been developed, but has been well proven. The second lift below water level on the Mammoth, and the water level in the Skidmore, are now being worked. The improvements are: A breaker, capable of preparing one hundred and fifty railroad cars per day; a 90-horse power hoisting engine, at the Mammoth slope; a 125-horse power pumping engine, that drives four plunger pumps, sixteen inches in diameter, with eight feet stroke; two 16-inch steam pumps, giving, altogether, a drainage capacity of 1,700 gallons of water, delivered at the surface, per minute; a 14-foot ventilating fan, driven by a 20-horse power engine; a 3-horse power breaker engine, and two 60-horse power (link motion) hoisting engines at the Skidmore slope, (dry,) and twenty-six boilers. The coal is tipped into gunboats at the bottom of the slopes, and hoisted directly into the breaker, from the Mammoth vein, and into a chute, from the Skidmore, where it is reloaded and run by gravity to the breaker. The lease extends one and one third miles on the strike of the veins. We drain the Hazel Dell Colliery, directly opposite, by contract, which accounts for our having pumping apparatus.

L. S. BALDWIN,
Superintendent and Mining Engineer.

NORTHUMBERLAND COUNTY.

Luke Fidler.

Mineral Railroad and Mining Company, Shamokin, Northumberland county, Pa.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 10,554.11 tons; estimated, $21,108.

Whole number of persons employed, 320.

Amount paid annually for wages of employés, $98,096 41.

Amount paid for materials used in business, $36,608 14.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	144	. . .	$2 05	. . .	10	$171\frac{1}{20}$	
Miners on wages, . .	15	. . .	1 80	. . .	10		
Outside laborers, . .	15	. . .	1 40	. . .	10		
Inside laborers, . .	20	14	1 52	$0 90	10		
Outside mechanics, .	10	. . .	1 90	. . .	10		
Inside mechanics, .	4	. . .	1 92	. . .	10		
Outside mule-drivers,	. . .	4	. . .	90	10		
Inside mule-drivers,	. . .	16	. . .	1 27	10		
Dumpers, ...	4	. . .	1 38	. . .	10		
Slate-pickers, . . .	. . .	73	. .	72	10		
Mining overseers, .	1	. . .	3 90	. . .	10		

HOLDEN CHESTER,
Superintendent.

Cameron.

Mineral Railroad and Mining Company, Shamokin, Northumberland county, Pa.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 178,662.16 tons; estimated, $357,324.

Whole number of persons employed, 550.

Amount paid annually for wages of employés, $182,414 54.

Amount paid for materials used in business, $76,056 85.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	270	. . .	$2 25	. . .	10	178½	
Miners on wages, . .	24	. . .	1 87	. .	10	178½	
Outside laborers, . .	45	. . .	1 30	. . .	10	178½	
Inside laborers, . .	19	. . .	1 60	. . .	10	178½	
Outside mechanics, .	24	. . .	1 80	. . .	10	178½	
Inside mechanics, .	8	. . .	1 67	. . .	10	178½	
Outside mule-drivers,	. . .	20	. . .	$1 07	10	178½	
Inside mule-drivers and loaders, . . .	. . .	50	. . .	1 46	10	178½	
Dumpers, ...	10	. . .	1 30	. . .	10	178½	
Slate-pickers, . . .	. . .	78	. . .	72	10	178½	
Mining overseers, .	2	. . .	4 63	. . .	10	178½	

HOLDEN CHESTER,
Superintendent.

Hickory Swamp.

Mineral Railroad and Mining Company, Shamokin, Northumberland county.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 30,872.04 tons ; estimated value, $61,744.

Whold number of persons employed, 225.

Amount paid annually for wages of employés, $39,785 40.

Amount paid for materials used in business, $10,446 72.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	91	. . .	$2 10	. . .	10	81$\frac{9}{10}$	
Miners on wages, . .	12	. . .	1 93	. . .	10	81$\frac{9}{10}$	
Outside laborers. . .	24	. . .	1 40	. . .	10	81$\frac{9}{10}$	
Inside laborers, . .	11	. . .	1 50	. . .	10	81$\frac{9}{10}$	
Outside mechanics, .	7	. . .	2 20	. . .	10	81$\frac{9}{10}$	
Outside mule drivers,	. . .	6	. . .	$1 08	10	81$\frac{9}{10}$	
Inside mule drivers,	. . .	3	. . .	1 47	10	81$\frac{9}{10}$	
Dumpers, ...	6	. . .	1 35	. . .	10	81$\frac{9}{10}$	
Slate-pickers, ...	. . .	64	. . .	85	10	81$\frac{9}{10}$	
Mining overseers, .	1	. . .	. . .	5 00	10	81$\frac{9}{10}$	

REMARKS.—This colliery ceased operating in August, 1876, on account of depression of the coal trade.

HOLDEN CHESTER,
Superintendent.

Hickory Ridge.

Mineral Railroad and Mining Company, Shamokin, Northumberland county.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 9,622.17 tons; estimated value, $19,244.

Whole number of persons employed, 160.

Amount paid annually for wages of employés, $17,903 70.

Amount paid for materials used in business, $5,505 06.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS
Miners on contract, .	76	. . .	$2 20	. . .	10	$60\frac{9}{10}$	
Miners on wages, . .	8	. . .	1 98	. . .	10	$60\frac{9}{10}$	
Outside laborers, . .	19	. . .	1 35	. . .	10	$60\frac{9}{10}$	
Inside laborers, . .	6	. . .	1 90	. . .	10	$60\frac{9}{10}$	
Outside mechanics, .	6	. . .	2 15	. . .	10	$60\frac{9}{10}$	
Inside mechanics, .	4	. . .	1 66	. . .	10	$60\frac{9}{10}$	
Outside mule drivers,	. . .	3	. . .	$1 19	10	$60\frac{9}{10}$	
Inside mule drivers,	. . .	1	. . .	1 58	10	$60\frac{9}{10}$	
Dumpers, ...	3	. . .	1 23	. . .	10	$60\frac{9}{10}$	
Slate-pickers, ...	. . .	33	. . .	81	10	$60\frac{9}{10}$	
Mining overseers, .	1	. . .	. . .	4 00	10	$60\frac{9}{10}$	

REMARKS.—This colliery ceased operating in June, 1876, on account of the depression of coal trade.

HOLDEN CHESTER,
Superintendent.

Excelsior Colliery.

Excelsior Coal Mining Company, Excelsior, Northumberland county.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 37,933 tons; $75,866.

Whole number of persons employed, 236.

Net cash payments to men for 1876, $38,737 17.

Amount paid for materials used in business, (oil, powder, and miscellaneous supplies,) $4,591 94.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	89	. . .	$1 94	. . . .	10	100	
Outside laborers, . .	21	. . .	1 22				
Inside laborers, . .	34	. . .	1 43				
Outside mechanics, .	3	. . .	2 16				
Outside mule drivers,	. . .	4	. . . .	83			
Inside mule drivers,	11	3	1 50	75			
Slate pickers, ...	22	49	1 05	65			
Mining overseers, .	2	. . .	3 50				

REMARKS.—The colliery is favorably located, with a good supply of good, free burning, white ash coal. Is abundantly able to ship one hundred thousand tons annually. The last year was an unprofitable one to all in the coal mining business. The general depression in business of all kinds, consequent upon a well grounded distrust in the financial policy of the Government, as well as in the honesty of those holding the reins of power, was seriously felt in the manufacturing department of our industry. This, as a matter of course, cut off the demand for coal, and with a limited demand came a shrinkage in price, and the two left capital unproductive and, as it were, locked up. There is much to discourage, yet that darkest hour which precedes the dawn may now be upon us, and a bright and prosperous future may be very near.

P. WILLIARD.

Stuartville Colliery.

William Montelius, Philadelphia, No. 327 Walnut street.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 60,361.18 tons; estimated, $120,722.

Whole number of persons employed, 233.

Amount paid annually for wages of employés, $79,986 24.

CLASSIFICATION.	Number of men.	Number of boys.	Average daily wages paid men for year.	Average daily wages paid boys for year.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	98	. . .	$2 31	. . . .	10	171½	
Outside laborers, . .	23	. . .	1 39				
Inside laborers, . .	15	. . .	1 52				
Outside mechanics, .	6	. . .	1 93½				
Inside mechanics, .	2	. . .	2 15				
Outside mule drivers,	. . .	4	. . . .	$1 00			
Inside mule drivers,	. . .	10	. . . .	1 04½			
Inside door boys, . .	. . .	5	. . . .	60			
Slate pickers, ...	. . .	67	. . .	$1 50 to 7 00 per week.			
Mining overseers, .	1						
Outside foreman, . .	1						
Clerk, ...	1						

CHARACTERISTICS OF COLLIERY.—Outside slope, on Mammoth vein, 60 yards deep; inside slope, on same vein, 112 yards in depth. The Skidmore vein is worked by a tunnel from the Mammoth. Engine of 25-horse power hoists out of the inside slope; the water is pumped out by means of a No. 9 pulsometer. Engine of 50-horse power hoists out of outside slope, which engine also runs a 14-inch pole pump. Breaker with two sets of rolls, two sets of elevators, one to elevate the coal, and the other, about one hundred feet in height, to elevate the dirt. The breaker contains four screens, and can prepare seventy-five cars of coal per day, in addition to from twenty-five to thirty cars of lump and steamboat sizes.

A. M. MONTELIUS,
Superintendent.

Henry Clay Colliery.

J. Langdon & Co., Shamokin, Northumberland county.

Mine located in Northumberland county.

Quantity in tons and value in dollars of annual product, 83,374 tons; estimated, $166,748.

Whole number of persons employed, 197.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	80	. . .	$1 54	. . .	10	251	
Outside laborers, . .	20	. . .	1 25	. . .	10	251	
Inside laborers, . . .	33	3	1 33	$1 25	10	251	
Outside mechanics, .	3	. . .	1 75	. . .	10	251	
Inside mechanics, . .	2	. . .	1 75	. . .	10	251	
Outside mule drivers,	. . .	6	. . .	83	10	251	
Inside mule drivers,	. . .	6	. . .	1 10	10	251	
Dumpers, ...	1	1	1 33	1 00	10	251	
Slate pickers, ...	. . .	40	. . .	50	10	251	
Mining overseers, .	2	. . .	2 40	. . .	10	251	

A. FULTON, *Sup't.*

Enterprise Colliery.

Enterprise Coal Company, Philadelphia.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 80,000 tons; $2 at Schuylkill Haven per ton, $160,000.

Whole number of persons employed, 215.

Amount of capital employed in business, $150,000.

Amount paid annually for wages of employés, $70,993 91.

Amount paid for materials used in business, $15,673 65.

Classification.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	Remarks.
Miners on contract, .	78	. . .	$2 25	. . .	9	151	
Outside laborers, . .	17	. . .	1 38	. . .	10	151	
Inside laborers, . . .	36	2	1 53	$0 76	10	151	
Outside mechanics, .	9	. . .	2 00	. . .	10	313	
Inside mechanics, . .	1	. . .	2 00	. . .	10	151	
Outside mule drivers,	2	2	1 38	90	10	151	
Inside mule drivers,	9	. . .	1 68	. . .	10	151	
Dumpers, ...	3	. . .	1 38	. . .	10	151	
Slate pickers, ...	18	34	92	54	10	151	
Stable boss, ...	1	. . .	2 00	. . .	10	365	
Mining overseers, . .	1	. . .	5 00	. . .	10	313	
Outside boss, ...	1	. . .	2 50	. . .	10		
Watchman, ...	1	. . .	1 25	. . .	10	365	

JOSEPH OLDKNOW, *Treas. and Sec.*
WILLIAM GABLE, *Sup't.*

Bear Valley Colliery.

A. A. Heim & Goodwill, Shamokin, Northumberland county.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 52,897.17 tons; estimated, $105,794.

Whole number of persons employed, 286.

Amount of capital employed in business, $120,000.

Amount paid annually for wages of employés, $92,313 22.

Amount paid for materials used in business, $6,500.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	70	. . .	$1 92	. .	6 to 7		
Miners on wages, . .	8	. . .	1 66	. . .	8		
Outside laborers, . .	36	. . .	1 35	. . .	10		
Inside laborers, . .	70	. . .	1 60	. .	8 to 9		
Outside mechanics, .	4	. . .	2 00	. .	10		
Inside mechanics, .	3	. . .	1 83$\frac{1}{3}$	. . .	10		
Outside mule-drivers,	. . .	6	1 75	. . .	10		
Inside mule-drivers,	. . .	5	1 20	. . .	9		
Dumpers, ...	4	. . .	1 33$\frac{1}{3}$	. .	10		
Slate-pickers, . . .	11	65	1 25	$0 74	10		
Mining overseers, .	3	. . .	2 50	. . .	10		
Teamsters, ...	2	. . .	1 75	. . .	10	137	

CHARACTERISTICS OF COLLIERY.—We work twin veins, Nos. 8 and 9; average thickness of each, about eleven feet; in very good condition.

A. A. HEIM & GOODWILL.

George Fales Colliery,

A. A. Heim & Goodwill, Shamokin, Northumberland county.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 15,189$\frac{18}{20}$ tons; estimated, $30,378.

Whole number of persons employed, 96.

Amount of capital employed in business, $45,000.

Amount paid annually for wages of employés, $21,358 60.

Amount paid for materials used in business, $2,200.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	45	. . .	$1 83⅓	. . .	8		
Miners on wages, . .	5	. . .	1 66	. . .	8		
Outside laborers, . .	5	. . .	1 33⅓	. .	10		
Inside laborers, . .	6	. . .	1 58	. . .	9		
Outside mechanics, .	2	. . .	2 00	. . .	10		
Inside mechanics, .	1	. . .	2 00	. . .	9		
Outside mule-drivers,	. .	4	. . .	$0 95	10		
Inside mule-drivers,	. . .	6	. . .	1 25	10		
Dumpers, ...	1	. . .	1 58⅓	. . .	10		
Slate-pickers, . . .	3	16	1 25	75	10		
Mining overseers, .	1	. . .	2 50	. . .	10		
Outside boss, ...	1	. . .	1 60	. . .	. . .	124	

CHARACTERISTICS OF COLLIERY.—At this colliery we work No. 11 vein. Red ash coal. In fair condition.

A. A. HEIM & GOODWILL.

Maton.

Maton & Brother, Mount Carmel, Northumberland county.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, about 10,000 tons; $20,000.

Whole number of persons employed, 41.

Amount of capital employed in business, $10,000.

Amount paid annually for wages of employés: Average, $1,400 per month for what time was worked; quit work in September.

Amount paid for materials used in business, about $200.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	17	. . .	. . .	. . .	10	120	
Miners on wages, . .	. . .	. . .	$2 50				
Outside laborers, . .	4	. . .	1 83				
Outside mechanics, .	2	. . .	2 50				
Outside mule drivers,	2	. . .	1 16				
Inside mule drivers,	3	. . .	1 16				
Slate pickers, ...	. . .	12	. . .	$0 60			
Mining overseers, .	1	. . .	83 00				

THOMAS MATON & BRO.

Ben Franklin.

Douty & Baumgardner, Shamokin, Northumberland county.

Mine located in Northumberland county.

Quantity of tons and value in dollars of annual product, 31,145.1 tons; value, $46,000.

Whole number of persons employed, 149.

Amount of capital employed in business, $60,000.

Amount paid annually for wages of employés, $56,353 61.

Amount paid for materials used in business, about $10,000.

CLASSIFICATION.	Number of men.	Number of boys.	Daily wages paid men.	Daily wages paid boys.	Hours worked per day.	Days in operation during year.	REMARKS.
Miners on contract, .	60	. . .	. . .	. . .	10	155	
Outside laborers, . .	17	. . .	$1 40	. . .	10	155	
Inside laborers, .	17	. . .	1 40	. . .	10	155	
Outside mechanics, .	5	. . .	2 15	. . .	10	270	
Outside mule-drivers,	2	. . .	1 25	. . .	10	155	
Inside mule-drivers,	9	. . .	1 75	. . .	10	155	
Dumpers, ...	2	. . .	1 25	. . .	10	155	
Slate pickers, ...	. . .	34	. . .	$0 50	10	155	
Mining overseers, .	1	. . .	5 00				
Outside overseer, . .	1	. . .	5 00				
Slate boss, ...	1	. . .	1 86				

DOUTY & BAUMGARDNER.

Coal Statement for 1877.

Amount of coal shipped from the several collieries of Northumberland county during the year 1877, the coal shipments of the Shamokin region from the commencement, in 1839, to the present time, including thirty-nine years, and some other facts of interest to the coal trade. Collieries numbered according to shipments made. Compiled by J. J. JOHN.

No.	NAMES OF COLLIERIES AND OPERATORS.	Tonnage for 1877.	
1	Cameron—Mineral Railroad and Mining Company, ...	166,047	00
2	Mt. Carmel Shaft—Philadelphia and Reading Coal and Iron Co., .	162,404	06
3	Monitor—George W. Johns & Brother, ...	131,110	03
4	Big Mountain—Patterson, Llewellyn & Co., ...	130,251	14
5	Trevorton—Philadelphia and Reading Coal and Iron Company, .	127,795	00
6	Luke Fidler—Mineral Railroad and Mining Company, ...	119,576	15
7	Sterling—Fulton & Kendrick, ...	103,044	01
8	Locust Spring—Philadelphia and Reading Coal and Iron Company,	79,879	02
9	Locust Gap—Graeber & Shepp, ...	76,000	00
10	Stewartville—William Montelius, ...	74,000	17
11	Enterprise—Enterprise Coal Company, ...	72,743	18
12	Henry Clay—J. Langdon & Co., ...	72,637	11
13	Bear Valley,— A. A. Heim & Goodwill, ... 53,436.18 Phila. & Reading Coal and Iron Co., . 10,985.13	64,422	12

Coal Statement for 1877—*Continued.*

No.	NAMES OF COLLIERIES AND OPERATORS.	Tonnage for 1877.	
14	Burnside—Isaac May & Co.,	56,513	10
15	Excelsior—Excelsior Coal Mining Company,	45,295	05
16	Buck Ridge—May, Audenried & Co.,	43,560	12
17	Helfenstein—Philadelphia and Reading Coal and Iron Company,	36,562	04
18	Black Diamond—William Schwenk & Co.,	23,713	09
19	Hickory Ridge—Mineral Railroad and Mining Company,	23,241	04
20	Ben Franklin—Douty & Baumgardner,	19,807	12
21	Reliance—Thomas Baumgardner & Co.,	16,359	19
22	Peerless—John Cruikshank,	12,087	07
23	Henry Clay, No. 1—J. Langdon & Co.,	8,531	13
24	Lancaster—Smith & Keiser,	6,964	08
25	George Fales,— A. A. Heim & Goodwill, 3,746.09 Phila. & Reading Coal and Iron Co., 2,972.16	6,719	05
26	Franklin—Lovell & Booth,	3,497	00
27	Packer—D. J. Lewis,	1,250	05
28	Greenback—T. Gorman,	971	16
29	Marshall—George Raup & Co.,	675	00
30	Royal Oak—Tillet & Brother,	500	00
31	Hickory Swamp—Mineral Railroad and Mining Company,		
	Total, 1877,	1,686,163	08

Recapitulation.

East, via Philadelphia and Reading Railroad,	867,662	15
East, via Lehigh Valley Railroad,	47,334	01
West, via Northern Central Railway,	766,594	12
Sold at mines,	4,572	00
Total,	1,686,163	08
Estimated consumption at breakers,	90,000	00
Total for 1877,	1,776,163	08
Total for 1876,	1,391,752	05
Gain for 1877,	384,411	03

An Estimate of the several Anthracite Coal Fields of Pennsylvania.

REGION.	Thickness of coal.	Number of acres.
Schuylkill,	100 feet,	115,200
Lehigh,	50 "	33,160
Shamokin,	70 "	32,000
Lackawanna,	60 "	64,000
Wyoming,	100 "	62,000

Outlets to Market for the Shamokin Coal.

To Baltimore, York, &c., via Northern Central Railway.
To Philadelphia, via Philadelphia and Reading Railroad.
To New York, via Lehigh Valley Railroad.
To Erie and the Lakes, via Philadelphia and Erie Railroad.
To Elmira and Northern New York, via Williamsport and Elmira Railroad.
To Havre de Grace and the South, via Pennsylvania Tide-water Canals.

Coal Productions of the Globe, 1871.

COUNTRIES.	TONS.
Great Britain,	117,352,028
United States,	41,000,000
Prussia,	26,774,368
Belgium,	13,671,470
France,	12,148,223
Austria,	4,525,783
Chili, India, China, &c.,	3,000,000
Nova Scotia,	673,242
Spain,	593,033
Total,	219,738,147

Area of Anthracite Coal Basins of Pennsylvania.

		SQUARE MILES.
1. Southern coal fields,		146
2. Middle coal fields:		
Shamokin,	50	
Mahanoy,	41	
Lehigh,	37	
		—128
3. Northern coal fields,		198
Total area of all basins,		472

Total Shipments from the Shamokin Region to date.

YEAR.	Total.	YEAR.	Total.
1839,	11,930	1860,	300,256
1840,	15,505	1861,	290,928
1841,	21,463	1862,	304,865
1842,	10,000	1863,	337,136
1843,	10,000	1864,	389,779
1844,	13,087	1865,	484,257
1845,	10,000	1866,	610,809
1846,	12,572	1867,	533,815
1847,	14,904	1868,	911,784
1848,	19,356	1869,	974,015
1849,	19,650	1870,	1,025,515
1850,	19,921	1871,	1,213,096
1851,	24,899	1872,	1,221,326
1852,	25,846	1873,	1,234,063
1853,	15,000	1874,	1,221,550
1854,	63,500	1875,	1,628,683
1855,	116,117	1876,	1,391,752
1856,	210,518	1877,	1,776,163
1857,	266,517		
1858,	242,579		17,298,199
1859,	305,043		

COAL, ANTHRACITE—Employees, Production, and Value.

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	POST OFFICE ADDRESS.	MINE—WHERE LOCATED.	Number of tons mined.	Value.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.
Schuylkill County:								
Thomas Coal Company, ...	Shenandoah, . .	Schuylkill county,	89,852	$162,115	407	$203,191	$81,579	$25,662
J. C. White, ...	Swatara, ...	Schuylkill county,	18,776	41,307	120	. . . . . .	26,000	
John R. Davis, ...	Broad Mountain,	Schuylkill county,	. . . . . .	. . . .	41	15,000		
Phillips & Sheafer, ...	Orwin, ...	Schuylkill county,	61,133	122,266	234	30,000	70,000	21,000
S. M. Heaton & Co., ...	Raven Run, . .	Schuylkill county,	54,874	Es. 109,748	215			
St. Nicholas Coal Company, ...	St. Nicholas, . .	Schuylkill county,	51,876	122,452	100	200,000	62,564	24,374
Lawrence, Merkel & Co., ...	Minersville, . .	Schuylkill county,	79,823	192,458	260	117,000	97,409	30,650
Middle Lehigh Coal Company, . . .	Mauch Chunk,	Schuylkill county,	120,141	227,307	430	100,000	124,342	24,476
Wiggan & Triebels, ...	Mahanoy City, .	Schuylkill county,	63,334	152,344	179	150,000	72,680	25,041
Job Rich, ...	Pottsville, . . .	Schuylkill county,	1,256	2,826	5	500	1,946	25
Lloyd & Co., ...	Minersville, . .	Schuylkill county,	. . . . . .	. . . . . .	163	30,000	3,000	12,000
Jones, Ward & Oliver, ...	Mahanoy, . . .	Schuylkill county,	8,035	11,441	33	12,000	9,718	3,655
John W. Davis, ...	Minersville, . .	Schuylkill county,	25,000	50,000	93	20,000	37,500	2,350
Gilberton Coal Company, ...	Gilberton, . . .	Schuylkill county,	82,691	180,000	229	. . . . . .	74,473	25,317
G. King, Tyler & Co., ...	Mahanoy City, .	Schuylkill county,	6,029	11,033	26	. . . . . .	5,560	2,736
W. H. Whitaker & Co., ...	Philadelphia, .	Schuylkill county,	30,000	60,000	200	100,000	100,000	12,000
Cambridge Coal Company, ...	Shenandoah, . .	Schuylkill county,	4,200	8,400	24	6,000	5,337	500
Shenandoah City Colliery, ...	Shenandoah, . .	Schuylkill county,	48,999	180,551	275	300,000	50,360	23,861
J. C. Hayden & Co., ...	Mahanoy City, .	Schuylkill county,	75,000	150,000	225	50,000		
Richard Herscker & Co., ...	Shenandoah, . .	Schuylkill county,	85,077	106,250	302	300,000	80,823	11,761
William Penn Coal Company, . . .	Mahanoy Plane,	Schuylkill county,	150,000	180,000	500	300,000	150,000	30,000
Lehigh and Wilkesbarre Coal Co., .	Audenried, . .	Schuylkill county,	92,657	185,314	285			
Lehigh and Wilkesbarre Coal Co., .	Audenried, . .	Schuylkill county,	115,379	230,758	345			
Lehigh and Wilkesbarre Coal Co., .	Audenried, . .	Schuylkill county,	81,138	162,276	202			
Lehigh and Wilkesbarre Coal Co., .	Audenried, . .	Schuylkill county,	119,702	239,404	276			
			1,464,972	$2,888,250	5,169	$1,933,694	$1,053,341	$278,408

COAL, ANTHRACITE—

NAME OF COLLIERY.	Number of men employed.	Number of boys employed.	Total number of men and boys employed.	Hours worked per day.	Days in operation.	Miners on contract.	Miners on wages.	Outside laborers—men.	Outside laborers—boys.	Inside laborers—men.	Inside laborers—boys.
Schuylkill County:											
Thomas Coal Company, ...	291	116	407	10	157	$1 95 to $2 50	$1 95	$1 35	. . .	$1 65	$0 75
J. C. White, ...	83	37	120	8 to 10	160	1 75					
John R. Davis, ...	29	12	41	8 to 10	. . . .	2 25	1 83	1 50	. . .	1 66	. .
Phillips & Sheafer, ...	163	71	231	8 to 10	190	2 64	1 83	1 36	. . .	1 62	. .
S. M. Heaton & Co., ...	146	69	215	10	145½	2 25	. . .	1 50	. . .	1 80	. .
St. Nicholas Coal Company, .	112	61	173	8 to 10	163	2 00	1 97	1 37	. . .	1 57	. .
Lawrence, Merkel & Co., . . .	174	96	260	10	184	. . . .	2 02½	1 64⅓	. . .	1 79½	. .
Middle Lehigh Coal Company,	. . .	. . .	. . .	. . . .	. . . .	. . . .	. . .	. . . .	. . .	. . . .	. .
Wiggon & Triebels, ...	125	52	177	7 to 10	173 to 300	2 44	. . .	1 54	. . .	1 67	70
Job Rich, ...	5	. . .	5	10	286	. . . .	1 66	1 16	. . .	1 35	. .
Lloyd & Co., ...	133	30	163	9 to 12	139	2 25	. . .	1 50	. . .	1 65	. .
Jones, Ward & Oliver, ...	26	7	33	10	152½	2 25	. . .	1 75	. . .	2 00	. .
John W. Davis, ...	93	14	107	10	180						
Gilberton Coal Company, . . .	169	60	229	9 to 12	191 to 310	2 70	2 01	1 42	. . .	1 61	. .
G. King, Tyler & Co., ...	18	8	26	10 to 11	149	. . . .	2 16⅔	. . . .	. . .	1 66⅔	. .
W. H. Whitaker & Co., ...	170	30	200	10	180	75c. to 1 50					
Cambridge Coal Company, . .	20	4	24	10	. . . .	2 50	. . .	1 35	. . .	1 83	. .
Shenandoah City Colliery, . .	201	74	275	8	108	3 24	1 95	1 56	$1 00	1 65	67
J. C. Hayden & Co., ...	176	49	225	10	60	1 50	1 50	1 15	. . .	. . . .	1 33
Richard Heckscher & Co., . . .	230	72	302	8 to 10	137 to 300	2 60	1 90	1 55	. . .	1 72	. .
Lehigh and Wilkesbarre C. Co.	216	79	285	10	202	1 75 to 4 00	1 83	1 20 to 1 60	1 15	1 58 to 1 83	1 20 to 1 25
Lehigh and Wilkesbarre C. Co.	256	89	345	10	199¼	1 75 to 4 00	1 83 to 2 00	1 20 to 1 75	. . .	1 58 to 1 83	. .
Lehigh and Wilkesbarre C. Co.	139	63	202	10	201½	2 00 to 4 20	. . .	1 20 to 1 60	60 to 1 15	1 50 to 1 83	. .
Lehigh and Wilkesbarre C. Co.	206	70	276	10	204½	1 75 to 4 00	1 83	1 15 to 1 60	1 00 to 1 15	1 58 to 1 83	. .
William Penn Coal Company,	500	. . .	500	8 to 10	150	2 00	1 50	1 25	. . .	1 50	. .
General average, ...	3,461 . . .	1,163 . . .	4,624 . . .	8¾	176	$1 91	$1 78	$1 47	$0 94	$1 69	$0 93

WAGES.

Inside mechanics—men.	Outside mechanics—men.	Outside mule drivers—men.	Outside mule drivers—boys.	Inside mule drivers—men.	Inside mule drivers—boys.	Dumpers.	Slate-pickers—men.	Slate-pickers—boys.	Mining overseers.	Remarks.
$2 00 to $2 50	$1 35	$1 50	$1 00	$1 65	$1 33	$1 35	$1 00 to $1 33	$0 25 to $0 75	$2 70 to $4 00	
. . . . .	2 00	. . .	. . . .	. . .	75	. . .	. . . .	60	3 50	
2 11	1 94	. . .	83	1 25	94	1 41	1 11	53	4 09	
1 75	1 75	1 50	1 37½	. . .	1 50	. . .	. . . .	62½	3 50	
2 33	2 15	. . .	1 18	1 57	. . . .	1 68	. . . .	66		
. . . . .	2 31	. . .	. . . .	1 72½	1 34	1 50	. . . .	87½	4 11	Watchman, $1 28½; pumpers, $2 91; firemen, $2 21; shippers, $2 25.
. . . . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . . .	. . . .	See body of report.
. . . .	2 25	. . .	1 21	1 70	1 00	1 50	1 33	93	4 80	Other classifications see body of report.
. . . . .	1 66									
2 25	2 33	. . .	75	. . .	1 00	1 67	. . . .	46½		
. . . . .	2 50	. . .	. . . .	. . .	1 25	1 50	. . . .	75	. . . .	Tunnel drivers, $3 00 per day; average wages paid boys, 62½c.; average wages paid men, $1 50.
2 07	2 07	. . .	1 15	1 61	1 33	1 42	90	73	4 56	
. . . . .	2 16⅔	2 00	. . . .	. . .	1 00	1 50	. . . .	75		
. . . . .	2 00	1 67	. . . .	1 67	. . . .	. . .	. . . .	51	. . . .	Chute boss, $1 67; superintendent, $2,500 per year; outside overseer, $90 per month.
. . . . .	2 08	1 20	. . . .	1 65	. . . .	. . .	1 36	65	3 69	
. . . . .	1 80	. . .	80	1 33	1 00	. . .	80	30 to 65		
2 00	2 15	1 50	1 25	1 72	1 30	. . .	90	70	4 00	
2 00 to 2 40	1 75 to 2 25	. . .	1 10 to 1 25	1 58	80 to 1 35	. . .	1 00	35 to 75	1 75 to 2 70	
. . . . .	1 75 to 2 25	. . .	75 to 90	1 58	80 to 1 35	. . .	1 00 to 1 25	30 to 65	. . . .	Outside bosses, $2 25 to $3 00.
1 50 to 1 60	1 90 to 2 00	. . .	. . . .	1 58	90 to 1 45	. . .	1 00 to 1 20	35 to 90	. . . .	$1 75 to $2 50, outside bosses.
. . . . .	1 80 to 2 35	. . .	65 to 1 00	. . .	80 to 1 50	. . .	1 00 to 1 25	30 to 80	. . . .	$1 90 to $2 50, outside bosses.
. . . . .	2 00	1 00	. . . .	1 12	. . . .	1 40	. . . .	. . . .	4 00	
$2 10	$2 20	$1 58	$1 09	$1 67	$1 12	$1 51	$1 06	$0 53	$3 78	

COAL, ANTHRACITE—Employees, Production, and Value.

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	POST OFFICE ADDRESS.	MINE—WHERE LOCATED.	Number of tons mined.	Value.	Whole number of persons employed.	Amount paid annually for wages.	Amount paid for materials used in business.
Phila. & Reading Coal & Iron Co.							
Glendower,	Philadelphia,	Schuylkill county,	23,601	$41,511	225	$41,131	$11,943
Phœnix Park, No. 2,	Philadelphia,	Schuylkill county,	25,001	54,565	123	29,484	7,603
Otto,	Philadelphia,	Schuylkill county,	26,294	47,437	207	40,135	14,247
East Franklin,	Philadelphia,	Schuylkill county,	27,641	63,900	147	31,895	8,391
North Franklin, No. 1,	Philadelphia,	Northumberland county,	36,016	70,744	141	38,411	11,732
Thomaston,	Philadelphia,	Schuylkill county,	60,631	127,191	282	80,153	25,197
Elmwood,	Philadelphia,	Schuylkill county,	33,957	63,537	173	34,835	10,549
Newkirk,	Philadelphia,	Schuylkill county,	No tonnage.	. . . . .	1		
Buckville,	Philadelphia,	Schuylkill county,	No tonnage.	. . . . . .	1		
Oakdale,	Philadelphia,	Schuylkill county,	No tonnage.	. . . . . .	4		
Richardson,	Philadelphia,	Schuylkill county,	6,899	11,170	145	17,441	6,289
Pine Knot,	Philadelphia,	Schuylkill county,	No tonnage.	. . . . . .	12		
Beechwood,	Philadelphia,	Schuylkill county,	57,617	114,428	350	90,288	25,844
Rainbow,	Philadelphia,	Schuylkill county,	No tonnage.	. . . . . .	7		
Mahanoy City,	Philadelphia,	Schuylkill county,	60,829	120,381	262	70,053	20,849
Ellangowan Shaft,	Philadelphia,	Schuylkill county,	No tonnage.	. . . . . .	84	13,679	4,204
West Shenandoah,	Philadelphia,	Schuylkill county,	59,749	123,274	262	45,260	22,158
Girard,	Philadelphia,	Schuylkill county,	6,057	10,262	209	9,473	3,442
Hammond,	Philadelphia,	Schuylkill county,	27,667	48,597	241	22,474	10,086
Anchor,	Philadelphia,	Schuylkill county,	29,876	50,728	256	45,939	16,246
Boston Run,	Philadelphia,	Schuylkill county,	45,191	95,021	182	45,585	15,727
Bast,	Philadelphia,	Schuylkill county,	73,642	146,978	283	82,113	33,403
Locust Run,	Philadelphia,	Columbia county,	47,502	98,214	205	55,076	13,691
Tunnel,	Philadelphia,	Schuylkill county,	66,311	133,844	265	78,498	22,991
Potts,	Philadelphia,	Columbia county,	33,527	90,451	290	70,173	25,793
Merriam,	Philadelphia,	Northumberland county,	105,759	227,759	329	107,042	31,767
Helfenstein,	Philadelphia,	Northumberland county,	15,700	31,665	120	21,226	5,524
Mount Carmel Shaft,	Philadelphia,	Northumberland county,	70,431	133,101	344	66,529	39,082

North Franklin, No. 2,	Philadelphia,	Northumberland county,	123	317	7		
Eagle Hill shaft,	Philadelphia,	Schuylkill county,	34,547	76,403	190	38,814	7,209
Mine Hill Gap,	Philadelphia,	Schuylkill county,	74,157	146,455	283	97,211	37,788
Ellangowan,	Philadelphia,	Schuylkill county,	78,089	146,771	304	66,417	21,238
Plank Ridge,	Philadelphia,	Schuylkill county,	90,657	188,561	301	81,988	15,306
Conner,	Philadelphia,	Schuylkill county,	16,912	27,949	273	17,342	7,654
West Brookside,	Philadelphia,	Schuylkill county,	154,544	412,858	464	128,444	60,872
Indian Ridge,	Philadelphia,	Schuylkill county,	93,092	206,856	386	97,033	12,414
Keystone,	Philadelphia,	Schuylkill county,	27,004	41,724	230	42,170	15,681
Knickerbocker,	Philadelphia,	Schuylkill county,	99,662	199,831	313	78,985	32,361
North Mahanoy,	Philadelphia,	Schuylkill county,	45,224	89,235	219	41,709	13,544
Pine Forest,	Philadelphia,	Schuylkill county,	31,538	58,636	242	60,101	21,313
Wadesville shaft,	Philadelphia,	Schuylkill county,	23,448	37,029	423	33,335	7,266
Middle Creek shaft,	Philadelphia,	Schuylkill county,	24,927	55,540	160	50,364	28,396
Locust Spring,	Philadelphia,	Northumberland county,	21,684	33,665	196	21,912	17,017
Forestville,	Philadelphia,	Schuylkill county,	21,383	42,512	180	25,095	8,061
Preston, No. 1,	Philadelphia,	Schuylkill county,	16,908	39,819	171	22,753	11,718
Preston, No. 2,	Philadelphia,	Schuylkill county,	26,495	51,881	231	36,126	15,947
Preston, No. 3,	Philadelphia,	Schuylkill county,	38	49	33	12,972	2,381
Pottsville,	Philadelphia,	Schuylkill county,	25,021	Est. 37,531	179	75,059	72,632
			1,852,361	$3,798,380	9,941	$2,167,623	$801,562

COAL, ANTHRACITE—

NAME OF COLLIERY.	Number of men employed.	Number of boys employed.	Total number of men and boys employed.	Hours worked per day.	Days in operation.	Miners on contract.	Miners on wages.	Outside laborers—men.	Outside laborers—boys.	Inside laborers—men.	Inside laborers—boys.
Philadelphia and Reading Coal and Iron Company.											
Glendower,	152	73	225	...	92	$0 52 to $2 45	$1 60	$1 22	$0 82	$1 40	$0 58
Phœnix Park, No. 2,	88	35	123	10	97¾	1 39 to 2 76	1 49	1 17	79	1 34	73
Otto,	136	71	207	10	106¼	90 to 2 74	1 60	1 24	71	1 36	71
East Franklin,	108	39	147	10	162	76 to 3 35	1 60	1 22	57	1 34	70
North Franklin, No. 1,	93	48	141	10	220	1 11 to 2 32	1 55	1 20	60	1 23	76
Thomaston,	255	27	282	10	169	1 02 to 2 81	1 65	1 22	72	1 44	61
Elmwood,	111	62	173	10	156¾	70 to 3 09	1 60	1 22	1 00	1 36	60
Newkirk,	1	...	1	...	...	...	...	...	...	*1 22	...
Buckville,	1	...	1	...	...	...	...	...	...	1 22	
Oakdale,	4	...	4	...	313	...	...	1 19	...	...	...
Richardson,	112	33	145	10	47¾	56 to 2 25	1 58	1 22	76	1 44	59
Pine Knot,	12	...	12	...	...	...	...	1 30	...	...	...
Beechwood,	262	88	350	10	174½	71 to 3 00	1 60	1 24	64	1 41	69
Rainbow,	7	...	7	...	...	...	...	1 37	...	...	...
Mahanoy,	182	80	262	10	201¼	99 to 3 01	1 60	1 22	...	1 41	66
Ellangowan Shaft,	80	4	84	10	56	74 to 3 80	1 60	1 30	79	1 44	66
West Shenandoah,	153	109	262	10	162	37 to 3 67	1 58	1 18	71	1 44	63
Girard,	139	70	209	10	39	59 to 2 53	1 60	1 22	85	1 38	...
Hammond,	160	81	241	10	79	88 to 2 12	1 60	1 18	73	1 41	59
Anchor,	175	81	256	10	104½	83 to 2 45	1 60	1 21	74	1 49	66
Boston Run,	122	60	182	10	168¾	78 to 2 29	1 60	1 22	...	1 42	79
Bast,	220	66	286	10	172	1 01 to 3 08	1 66	1 23	79	1 45	71
Locust Run,	138	67	205	10	171¾	77 to 1 63	1 60	1 18	77	...	...
Tunnel,	188	77	265	10	193¼	1 20 to 2 71	1 67	1 20	...	1 52	73
Potts,	188	102	290	10	114	1 79 to 3 17	1 59	1 16	59	1 47	73
Merriam,	224	105	329	10	201¾	99 to 2 99	1 60	1 21	...	1 42	77
Helfenstein,	93	27	120	10	96	1 03 to 2 35	1 60	1 26	...	1 37	68
Mount Carmel Shaft,	234	110	344	10	155¾	1 02 to 3 21	1 60	1 20	79	1 66	66
North Franklin, No. 2,	7	...	7	10	...	...	1 55	1 19			
Eagle Hill Shaft,	132	58	190	10	101	1 00 to 2 78	1 55	1 18	77	1 41	66
Mine Hill Gap,	170	113	283	10	204¾	64 to 3 62	1 60	1 22	...	1 44	67
Ellangowan.	220	84	304	10	182	56 to 3 02	1 58	1 18	...	1 36	63
Plank Ridge,	211	90	301	10	183½	59 to 3 58	1 54	1 18	72	1 42	63
Conner,	182	91	273	10	64¾	57 to 2 38	1 60	1 14	79	1 40	59
West Brookside,	363	101	464	10	176½	49 to 3 04	1 62	1 22	...	1 28	59
Indian Ridge,	137	129	386	10	163¾	41 to 2 68	1 57	1 18	59	1 41	63
Keystone,	158	92	230	10	105¼	1 37 to 2 69	1 64	1 20	88	1 54	76
Knickerbocker,	209	104	313	10	188	84 to 3 09	1 58	1 22	80	1 44	62
North Mahanoy,	149	70	219	10	176¼	73 to 2 77	1 59	1 22	...	1 31	46
Pine Forest,	189	53	242	10	144	81 to 2 45	1 60	1 20	85	1 43	59
Wadesville Shaft,	311	112	423	10	62¼	90 to 3 87	1 60	1 19	49	1 42	69
Middle Creek Shaft,	117	43	160	10	142	73 to 2 46	1 60	1 23	72	1 41	59
Locust Spring,	141	55	196	10	102¼	1 15 to 3 37	1 60	1 23	...	1 42	73
Forestville,	128	52	180	10	88	84 to 2 23	1 54	1 19	...	1 35	53
Preston, No. 1,	106	65	171	10	85½	91 to 2 22	1 56	1 16	...	1 31	64
Preston, No. 2,	140	91	231	10	104	1 20 to 3 08	1 56	1 18	66	1 43	66
Preston, No. 3,	32	4	36	10	...	1 86	1 60	1 19	..	1 45	72
Pottsville,	133	46	179	10	159¾	81 to 2 38	1 61	1 21	...	1 40	66
	6,973	2,963	9,941								

WAGES.

Outside mechanics—men.	Outside mule drivers—men.	Outside mule drivers—boys.	Inside mule drivers—men.	Inside mule drivers—boys.	Dumpers.	Slate pickers—men.	Slate pickers—boys.	Mining overseers.	Average daily wages of miners.	Remarks.
$1 53	$1 45	$0 77	$1 30	. . .	$1 18	. . .	$0 58	$2 50	$1 69	
1 70	1 25	66	. . . . .	$0 85	1 18	. . .	53	2 45	1 95	
1 71	1 18	70	1 24	85	1 22	. . .	43	2 78	1 70	
1 56	1 38	56	1 30	66	1 32	. . .	40	2 87	1 57	
1 57	1 29	79	1 30	. . .	1 18	. . .	43	3 10	1 82	
1 62	1 11	66	1 16	73	1 12	. . .	53	2 72	1 73	
1 66	1 45	85	99	85	1 32	. . .	52	2 99	1 54	
. . . . .	. . . . .	. . .	. . . . .	. . .	. . . . .	. . .	. . .	. . . . .	. . . . .	*Watchman.
1 75										
1 63	1 32	. . .	1 35	85	. . . . .	. . .	54	2 66	1 51	
1 67	1 32									
1 60	1 45	67	1 17	85	1 25	. . .	39	2 72	1 63	
1 52										
1 65	1 19	73	1 05	. . .	1 28	. . .	56	3 27	1 67	
1 67	1 20	39	1 42	. . .	. . . . .	. . .	. . .	3 96	2 12	
1 62	1 45	77	1 34	83	1 38	. . .	57	3 11	1 63	
1 70	1 21	85	1 38	73	. . . . .	$0 92	51	2 97	1 82	
1 56	1 21	77	1 25	76	1 12	92	53	3 08	1 45	
1 60	1 25	79	1 03	. . .	1 19	. . .	47	2 60	1 53	
1 58	1 15	79	1 19	. . .	1 30	. . .	58	3 22	1 62	
1 72	1 16	. . .	1 29	. . .	1 18	92	57	2 83	1 96	
1 64	1 12	. . .	1 26	76	1 12	. . .	53	3 20	1 13	
1 69	1 22	53	1 24	82	. . . . .	92	52	2 84	2 07	
1 62	1 19	53	1 26	86	1 19	. . .	53	2 99	2 54	
1 66	1 38	88	1 14	77	. . . . .	. . .	57	2 79	1 88	
1 59	. . . . .	79	1 17	. . .	1 18	. . .	54	3 30	1 83	
1 70	1 32	. . .	1 10	79	1 25	. . .	70	2 91	1 77	
1 56	1 32	. . .	. . . . .	85	1 18	. . .	41	2 68	1 82	
1 70	1 32	. . .	1 52	1 02	1 18	96	45	3 08	2 13	
1 58	1 02	. . .	1 34	. . .	1 38	. . .	53	3 19	1 47	
1 51	1 45	75	1 04	71	1 22	. . .	49	3 83	1 82	
1 56	92	79	. . . . .	1 08	1 15	92	54	2 77	1 63	
1 81	1 45	69	1 23	80	1 18	1 05	44	3 26	1 57	
1 57	1 45	74	1 12	81	1 28	92	56	2 95	1 68	
1 63	1 01	88	1 27	88	88	. . .	50	2 95	2 20	
1 64	1 14	. . .	1 34	98	1 12	. . .	56	3 41	1 86	
1 58	1 45	81	1 05	73	1 38	. . .	55	3 27	1 25	
1 54	1 31	66	1 07	69	1 18	. . .	43	2 69	1 70	
1 54	1 37	50	1 13	42	1 25	. . .	40	2 75	2 03	
1 62	1 45	55	92	77	1 32	. . .	39	3 12	1 38	
1 68	1 03	. . .	1 11	. . .	1 14	1 05	49	3 08	1 78	
1 49	1 54	75	1 54	. . .	1 30	. . .	43	3 04	1 50	
1 53	1 29	67	1 33	. . .	1 05	. . .	46	2 69	1 57	
1 74	1 30	82	1 23	. . .	1 11	. . .	55	2 80	1 71	
1 75	1 45	. . .	1 05	. . .	. . . . .	. . .	. . .	4 20	1 86	
1 63	1 18	66	97	. . .	1 18	. . .	48	2 94	1 21	

TONNAGE FROM COLLIERIES *operated by the Philadelphia and Reading Coal and Iron Company.*

COLLIERY.	1873.	1874.	1875.	11 months ending Nov. 30, 1876	1877.
Anchor,	....	5,776 11	19,664 05	29,875 15	2,076 11
Bast,	66,757 19	52,340 13	72,121 16	73,641 14	118,911 09
Beechwood,	80,121 17	74,333 09	44,769 18	57,617 07	103,192 00
Boston Run,	57,734 19	62,537 19	39,084 13	45,190 18	68,593 06
Buckville,	7,493 09	27,527 09	16,812 02		
Bear Valley,	....	....	....	....	1,328 10
Colket,	....	....	....	....	24,723 00
Conner,	....	....	....	16,911 16	99,194 16
East Franklin,	46,771 08	26,999 19	26,340 00	27,641 08	48,367 02
Ellangowan,	80,897 13	77,035 18	53,984 14	78,089 06	145,866 10
Elmwood,	....	18,361 04	25,740 03	33,957 04	65,230 15
Eagle Hill,	....	....	26,953 05	31.547 02	32,219 06
Forestville,	34,187 04	23,878 16	33,737 11	21,382 17	49,317 13
Girard,	....	....	....	6,057 06	93,185 05
George Fales,	....	....	....	....	279 03
Glendower,	32,940 11	13,217 11	24,322 03	23,600 19	58,497 17
Helfenstein,	906 18	2,709 09	15,974 11	15,700 02	37,366 09
Hillside,	4,371 11	2,274 03			
Hammond,	....	....	....	27,676 16	119,694 13
Indian Ridge,	102,098 01	120,763 05	98,569 02	96,092 01	155,131 13
Keystone,	40,329 15	12,926 15	23,647 18	27,003 17	79,143 05
Knickerbocker,	24,715 06	10,313 12	64,593 05	99,661 12	133,923 01
Live Oak,	20,410 18	2,020 09			
Locust Run,	....	25,479 05	43,053 03	47,502 03	80,949 00
Locust Spring,	4,057 01	13,920 01	31,864 08	21,684 04	72,623 10
Mahanoy City,	84,077 07	127,006 02	51,402 02	60,828 19	117.293 12
Merriam,	2,007 01	59,908 17	86,630 10	105,758 17	136,073 10
Mount Carmel Shaft,	....	3,176 07	21,076 09	70,431 05	148.305 10
Mine Hill Gap,	39,843 02	58,487 08	53,926 14	74,157 11	105,213 05
Middle Creek Shaft,	....	....	9,025 02	24,927 05	31,351 15
North Franklin, No. 1,	11,565 06	26,545 11	37,053 15	36,016 10	41,773 09
North Franklin, No. 2,	50,120 09	39,353 15	43,516 04	123 00	73,959 17
North Ashland,	....	....	....	....	11,469 13
North Mahanoy,	51,528 00	33,356 02	40,080 12	45,223 16	86,886 03
Oakdale,	....	21,288 06	31,278 16		
Otto,	69,889 03	1,574 15	35,694 03	26,294 11	89,989 09
Phœnix Park, No. 2,	7,512 12	35,470 06	27,060 15	25,001 06	31,739 03
Pine Forest,	59,005 02	58,556 19	26,910 00	31,537 19	53,073 06
Pottsville,	....	....	1,810 08	25,020 19	48,501 09
Pine Knot,	28,935 16	....	2,262 04		
Plank Ridge,	68,140 15	131,133 02	81,737 03	90,656 13	118,819 08
Potts,	60,166 01	51,745 07	40,910 12	38,527 00	103,806 15
Preston, No. 1,	17,182 02	4,409 03	8,219 12	16,908 00	37.718 02
Preston, No. 2,	34,230 17	20,146 16	39,568 13	26,495 01	76,371 12
Preston, Nos. 3 and 4,	34,954 16	8,457 18	16,536 14	38 10	22,019 11
Rainbow,	47,890 01	1,579 19			
Richardson,	....	....	4,906 15	6,898 18	62,238 16
Schuylkill,	....	....	....	....	231 10
South Pyne,	....	....	....	....	11,923 14
Thomaston,	33,776 09	16,573 07	41,104 08	60,631 04	81,543 16
Tunnel,	39,807 15	38,733 13	50,072 02	66,311 01	100,735 03
Wabash,	4,384 14				
West Brookside,	....	54,668 04	68,547 02	154,543 13	369,573 07
West Shenandoah,	....	10,211 11	30,068 19	59,749 04	93,751 08
West End,	....	....	....	....	2 00
Wadesville Shaft,	....	....	....	23,448 12	150,261 11
West Lehigh, No. 1,	26 10				
	1,348,838 08	1,374,790 16	1,510,572 11	1,853,364 01	3,794,528 16
Tonnage from leased collieries from lands owned and controlled by the Philadelphia and Reading Coal and Iron Company, as per statement B,	2,055,565 04	1,802,370 18	1,594,740 18	1,218,533 03	1,389,108 07
Total tonnage,	3,404,403 12	3,177,161 14	3,105,313 09	3,071,897 04	5,183,637 03

STATEMENT B.—*Tonnage of Leased Collieries, on Lands owned and controlled by the Philadelphia and Reading Coal and Iron Company.*

COLLIERIES.	OPERATORS.	1873.	1874.	1875.	1876. 11 mos. ending Nov. 30, 1876.	1877.
Kalmia,	Phillips & Sheafer,	50,624 10	61,169 16	82,778 12	55,555 08	99,887 09
Rausch Creek,	Miller, Graeff & Co.,	114,485 11	60,686 17	30,172 17	38,535 12	32,146 13
Lincoln,	Levi Miller & Co.,	63,577 15	52,480 17	90,767 13	62,498 18	74,188 08
Swatara,	John D. Felty,	479 13	. . . .	1,103 11	541 14	609 15
Pyne,	J. Claude White,	30,403 11	44,457 03	9,165 03	17,562 15	10,319 00
Lewis tract,	James O'Malley,	618 17	874 05	209 15	69 10	45 10
Diamond,	W. H. Whittaker & Co.,	34,628 03	26,284 03	9,109 03	19,357 02	
Lewis tract,	Seth W. Geer,	929 00	719 00	606 01	230 00	127 10
White Oak,	J. H. Denning & Bro.,	7,535 12	8,984 17	10,058 12	7,542 04	5,952 19
Ellsworth,	John R. Davis,	7,886 02	8,929 14	15,551 13	9,595 01	5,856 08
Gettle & Wagner tract,	W. & J. S. Heffnor,	349 05	471 17	496 12	353 13	307 06
Gettle & Wagner tract,	Levi Reber,	195 00	132 00	129 00	115 00	37 00
Chandler,	Pat. Keenan,	445 01	98 00	71 10	145 00	249 15
Lee lands,	Schuylkill Iron Company,	266 15	1,549 11	263 01	12 14	
Chandler,	William Lloyd,	110 10	68 15	115 00	115 00	39 10
Chandler,	Ed. M'Govern,	21 05	92 00	60 10	75 00	16 15
Monitor,	J. H. Denning & Co.,	15,182 01	20,516 05	5,252 07	3,394 17	2,457 19
Wadesville shaft,	Hickory Coal Company,	122,501 00	120,573 15	81,283 19	25,361 16	
Diamond,	Berluchy & Co.,	8,239 18	5,503 05	6,567 09	457 05	181 00
Eagle,	G. W. Johns & Bro.,	84,999 14	85,515 02	50,828 14	43,389 02	46,221 14
St. Clair,	Adam Jackson,	3,655 13	4,898 10	5,959 02	1,998 05	491 11
Keim & Repp tract,	Edward York,	291 05	71 00	231 10	41 00	
Kentucky,	Schall & Donohoe,	5,938 16	9,099 01	4,318 19	412 06	
Alaska,	Alaska Coal Company,	30,800 10	14,496 15	26,699 17	82 08	67 18
Hartford,	Richard Phillips & Co., *et al.*,	866 00	9,833 13	23,982 03	8,113 03	1,504 18
Staffordshire,	Jones, Ward & Oliver,	6,008 00	9,107 16	11,072 18	7,458 16	7,791 05
Tunnel Ridge,	George W. Cole,	93,068 05	80,822 03	56,997 15	37,132 07	30,340 00
Mahanoy City,	Hill & Harris,	16,439 06				
North Mahanoy,	Rommel, Hill & Harris,	22,950 11				
St. Nicholas,	St. Nicholas Coal Co.,	80,546 00	73,826 04	42,838 09	46,231 11	91,023 16
Suffolk,	Suffolk Coal Company,	45,220 19	33,550 18	23,245 03	41,990 05	60,805 05
Bear Run,	Wiggan & Triebels,	59,006 16	69,769 16	52,915 17	57,651 12	82,409 03
Hillside,	George W. Pomeroy,	92 07				

STATEMENT B.—Continued.

COLLIERIES.	OPERATORS.	1873.	1874.	1875.	1876. 11 mos. ending Nov. 30, 1876.	1877.
Colliery, No. 1,	McNeal Coal Company,	26,700 01				
Colliery, No. 2,	McNeal Coal Company,	30,809 06	476 00			
Colliery, No. 3,	McNeal Coal Company,	30,745 10				
Colliery, No. 4,	McNeal Coal Company,	16,314 08				
Shenandoah,	James Neill, Trustee,	71,309 15	63,609 11	58,247 14	45,855 04	46,203 18
Enterprise,	J. R. Cleaver & Co.,	21,260 10	16,175 03	11,008 19	8,373 09	69 01
Ashland estate,	A. Bancroft,	1,642 03	644 17	1,578 03	920 06	194 00
Ashland estate,	Vaughn & Jones,	1,994 10	1,790 05	2,187 15	1,302 05	1,646 05
Big Mine Run,	Jeremiah Taylor & Co.,	178 09				
Locust Gap,	Graeber, Kempel & Co.,	1,581 19	23,211 18	12,234 15	21,114 15	18,272 12
Greenback,	Thomas Gorman,	8,289 19	363 09	78 14	3,391 13	280 02
Reliance,	T. Baumgardner & Co.,	74,639 09	49,391 02	39,714 03	32,478 04	16,207 00
Ben Franklin,	Douty & Baumgardner,	40,329 17	51,152 05	46,905 09	29,374 10	21,334 13
Henry Clay,	J. Langdon & Co.,	9,883 01	22,774 14	58,815 19	51,153 13	71,023 15
Shamokin,	George Tillots & Co.,	823 00	511 00	814 00	631 16	304 02
Franklin,	Lovel, Booth & Co.,	3,728 12	7,622 09	10,667 12	3,914 03	3,844 06
Burnside,	Isaac May & Co.,	9,836 13	53,769 07	108,510 16	54,418 16	60,637 15
Bear Valley,	Heim & Goodwill,	65,738 14	60,154 13	91,977 07	53,722 07	55,632 07
George Fales,	Heim & Goodwill,	10,725 12	27,971 01	32,576 17	14,190 06	3,970 17
Manhattan estate,	John Sullivan,	15 10				
Webster,	William Brown,	653 04				
Taylorsville,	T. H. Schollenberger,	36,316 05	15,884 01			
Richardson,	Oakdale C. Mining Co.,	31,935 18				
Oakdale,	Oakdale C. Mining Co.,	42,609 10				
Peach Mountain,	William H. Starr,	36,388 19	10,727 09			
Brookside,	Repplier, Gordon & Co.,	62,625 13	28,584 00			
Tower,	Repplier, Gordon & Co.,	21,779 18	59 17			
Manchester,	Altin & Parkin,	5,351 16	1,568 06			
Newkirk,	Fry, Shoemaker & Co.,	41,940 15	52,371 03	130 14		
Tamaqua,	J. W. Krell,	75 00	309 05	64 10		
Glentworth,	Diamond Coal Company,	25,521 18	24,589 01			
Reevesdale,	E. Lucien Richie,	1,935 01				
Elmwood,	Lee & Wren,	1,743 12				
Plank Ridge,	Lee, Grant & Co.,	60,238 12				
Cambria,	Lewis & Alkins,	25,187 10	22,396 16			

Eagle Hill,	J. C. Oliver,	48,532 01	29,066 06			
Heckscherville,	John Wadlinger & Co.,	30,657 17	20,524 00			
Munson & Williams tract,	W. H. Yohe,		2,156 15	1,182 06	545 15	544 00
Phœnix Park, No. 3,	Lloyd, Glover & Co.,		21,343 19	16,286 06	22,488 05	22,427 09
Minersville tract,	Ed. Bradley,		7 00	9 10	5 00	
St. Clair tract,	David Vipond, *et al.*,		100 00	37 00	888 03	229 04
Ledger Vein,	James Boyce,		15,497 14	12,929 04	11,447 18	
Valley Furnace estate,	Alex. Jennings,		110 09	206 11	53 00	43 10
Valley Furnace estate,	Patrick McDonald,		63 10	131 00	25 00	
Valley Furnace estate,	J. C. Winlack,		2,562 09	2,743 18	2,339 04	56 06
Shaft No. 1,	J. C. Winlack,		2,638 00	18,588 02	8,879 14	5,390 18
Forester,	King, Tyler & Co.,		32 00	10,418 04	6,090 13	535 06
Big Mountain,	Patterson, Llewellyn & Co.,		104,573 16	193,131 04	95,901 00	127,709 04
Valley Furnace estate,	Lewis Lorenz,		18 00			
Valley Furnace estate,	Thomas Jennings,		47 15	23 10		
Tamaqua,	Peter Danner,		23 00			
Valley Furnace estate,	John Phillips & Co.,		712 09	1,676 15		
West F. Field tract,	Jacob Madara,			22 00		
Gettle & Wagner,	Thomas Egan & Co.,			251 10		
West End,	Owen, Eckel, Colket & Co.,			1,527 19	98 19	
Excelsior,	Excelsior C. M. Company,			4,313 10	4,564 04	8,149 07
Black Mine,	Chas. F. King & Co.,				1,699 18	
Sterling,	Fulton & Kendrick,				14,471 13	77,764 00
Alaska,	A. A. Raabe,					284 16
Total from lands of Philadelphia and Reading Coal and Iron Company,		1,808,410 01	1,543,167 12	1,389,887 19	976,358 17	1,095,833 00
From Lands Controlled by the Philadelphia and Reading Coal and Iron Co.						
Tremont Coal Company.						
Tremont,	Jos. Boden, *et al.*,	849 15	622 10	478 00	291 00	1,549 07
Rausch Creek,	Miller, Graeff & Co.,	3,177 13	33,438 03	24,238 08	15,764 00	5,737 07
Colket,	Owen, Eckel, Colket & Co.,	62,710 14	51,505 08	14,627 17	11,209 01	
Eureka,	Owen, Eckel, Colket & Co.,	92 16	1,226 06			
West End,	Owen, Eckel, Colket & Co.,		348 19	16,211 08	9,093 19	
		1,875,240 19	1,630,308 18	1,445,443 12	1,012,716 17	1,103,119 14

STATEMENT B.—Continued.

COLLIERIES.	OPERATORS.	1873.	1874.	1875.	1876. 11 mos. ending Nov. 30, 1876.	1877.
Fulton Coal Company.						
Excelsior,	Excelsior Coal Company,	64,037 12	41,413 09	37,528 19	31,112 01	30,626 14
Enterprise,	Enterprise Coal Company,	33,503 05	58,874 18	52,666 06	65,424 03	72,112 19
Greenback,	Guiterman & Gorman,	2,000 09	2,204 05	883 03	1,745 08	
		1,974,782 05	1,732,801 10	1,536,522 00	1,110,998 09	1,205,859 07
Locust Gap Improvement Company.						
Monitor,	G. W. Johns & Bro.,	78,129 01	65,049 02	48,631 03	74,418 06	127,292 06
Locust Gap,	Graeber & Shepp,	389 08	1,849 03	6,804 10	29,721 08	53,394 04
		2,053,300 14	1,799,699 15	1,591,957 13	1,215,138 03	1,386,545 17
Mammoth Vein and Delaware Coal Companies.						
Small operators,		2,264 10	2,671 03	2,783 05	3,395 00	2,562 10
Total mined from lands owned and controlled,		2,055,565 04	1,802,370 18	1,594,740 18	1,218,533 03	1,389,108 07

Operations of the Beneficial Fund of the Philadelphia and Reading Coal and Iron Company from May 1 to November 30, 1877.

RECEIPTS.					
From 2,290 contributors,				$2,050	95
Interest on amounts in Endowment Fund:					
Coupons maturing May 1, 1877, at seven per cent.,	$350 00				
Coupons maturing November 1, 1877, at seven per cent.,	350 00				
		$700	00		
Coupons maturing August 1, 1877, at eight per cent.,		400	00		
				1,100	00
				$3,150	95
DISBURSEMENTS.					
Paid 119 contributors for injuries received,		$1,494	05		
Paid families of 3 contributors killed,		308	16		
				1,802	21
Balance to credit of fund, November 30, 1877,				$1,348	74

Endowment Fund.

$10,000 Preston Coal and Improvement Company's first mortgage bonds, seven per cent interest, May and November.

$10,000 Mammoth Vein Coal and Iron Company's first mortgage bonds, eight per cent. interest, February and August.

STATEMENT *showing the Tonnage, Expenses, and Average Cost per Ton for pany, for the years 1873,*

MONTHS.	FOR THE YEAR 1873.			FOR THE YEAR 1874.		
	Tonnage.	Expenses.	Cost per ton.	Tonnage.	Expenses.	Cost per ton.
December,	92,524 03	$249,352 40	$2 71.3	80,212 05	$217,527 71	$2 71.2
January,	11,353 11	82,202 45	7 31	10,915 04	91,066 26	8 34.3
February,	29,388 03	151,482 00	5 15.4	50,816 07	176,780 09	3 47.9
March,	92,698 01	257,187 54	2 77.4	110,748 12	312,285 86	2 81.9
April,	128,505 18	325,924 74	2 53.6	129,323 10	309,952 99	2 39.6
May,	123,492 10	316,948 91	2 57	142,777 00	321,971 28	2 25
June,	127,206 09	318,772 52	2 50.5	145,759 15	319,998 19	2 12.6
July,	126,793 12	312,720 94	2 46.6	64,415 19	211,997 15	3 29
August,	140,481 18	328,826 46	2 34	88,309 17	236,610 80	2 67.9
September,	160,957 06	349,221 18	2 17.6	158,228 05	352,044 78	2 21.9
October,	167,249 03	362,041 23	2 16.3	226,267 16	450,200 70	1 93.9
November,	148,196 14	530,469 31	2 23	167,016 06	364,472 16	2 18.2
Total,	1,348,838 08	$3,385,149 68	$2 51	1,374,790 16	$3,364,908 37	$2 44.8

Coal at Collieries worked by the Philadelphia and Reading Coal and Iron Com- 1874, 1875, 1876, and 1877.

FOR THE YEAR 1875.			FOR ELEVEN MONTHS ENDING NOVEMBER 30, 1876.			FOR TWELVE MONTHS ENDING NOVEMBER 30, 1877.		
Tonnage.	Expenses.	Cost per ton.	Tonnage.	Expenses.	Cost per ton.	Tonnage.	Expenses.	Cost per ton.
82,893 15	$155,419 39	$1 87.4	. . . .	. . . .	. . . . .	198,411 14	$219,449 94	$1 10.6
5,907 14	41,840 96	7 08.2	42,274 19	$132,015 09	$3 12.2	146,082 05	198,733 45	1 36
5,411 09	50,347 84	9 30.4	26,882 10	133,765 29	4 97.6	133,114 00	229,705 34	1 72.6
6,413 17	67,937 75	10 59.2	49,097 08	183,750 29	3 74.4	205,713 04	310,245 07	1 50.8
5,790 09	72,597 08	12 53.8	208,686 07	309,703 93	1 48.4	324,382 06	353,458 40	1 08.9
9,256 09	83,596 61	9 03.1	206,103 00	276,358 30	1 34	380,714 12	386,974 63	1 01.7
92,974 13	215,645 03	2 31.9	117,746 16	173,274 47	1 47.1	375,710 10	349,610 54	93
260,312 04	424,431 33	1 63	122,469 01	169,276 49	1 38.2	376,249 12	335,370 90	89.1
256,546 12	441,424 95	1 72	177,767 02	229,404 88	1 29	420,398 09	418,497 56	99.5
266,150 19	452,129 57	1 59.7	264,637 19	270,664 27	1 02.3	419,602 06	404,810 39	96.5
290,019 06	447,989 68	1 54.4	316,974 14	316,696 11	99.9	441,902 05	419,780 08	95
228,895 04	368,249 32	1 60.8	320,724 05	314,574 12	98	372,247 13	315,925 41	84.9
1,510,572 11	$2,821,609 51	$1 86.7	1,853,364 01	$2,509,483 24	$1 35.4	3,794,528 16	$3,942,561 71	$1 03.9

COAL, ANTHRACITE—Employees, Production, and Value.

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	POST OFFICE ADDRESS.	MINE—WHERE LOCATED.	Number of tons mined.	Value.	Whole number of persons employed.	Capital employ'd in business.	Am't paid annually for wages.	Amount paid for materials used in business.
Luzerne County—Lehigh and Wilkesbarre Coal Company:								
Nottingham, No. 15,	Wilkesbarre,	Luzerne county,	. . .	. . .	535	. . .	$168,450	$20,700
Reynolds, No. 16,	Wilkesbarre,	Luzerne county,	. . .	. . .	300	. . .	88,840	13,940
Kidder, No. 3,	Wilkesbarre,	Luzerne county,	. . .	$69,448	264	. . .	81,200	12,400
Breaker, No. 19,	Wilkesbarre,	Luzerne county,	109,846	Es. 219,692	581	. . .	150,595	30,980
Gaylord, No. 13,	Wilkesbarre,	Luzerne county,	. . .	. . .	400	. . .	135,850	17,740
Stanton, No. 7,	Wilkesbarre,	Luzerne county,	. . .	70,510	497	. . .	155,694	29,684
Lance, No. 11,	Wilkesbarre,	Luzerne county,	. . .	. . .	330	. . .	105,450	15,460
Sugar Notch, No. 10,	Wilkesbarre,	Luzerne county,	82,400	Es. 164,800	305	. . .	114,038	22,057
Hartford, No. 6,	Ashley,	Luzerne county,	. . .	. . .	521	. . .	137,258	32,880
Empire, No. 4,	Wilkesbarre,	Luzerne county,	. . .	205,502	820	. . .	255,102	43,800
Diamond, No. 1,	Wilkesbarre,	Luzerne county,	. . .	160,016	840	. . .	185,900	49,500
			192,246	$889,968	5,393	. . .	$1,578,377	$289,141
* Delaware & Hudson Canal Co.,	Providence,	Luzerne county,	1,336,694	1,735,191	6,051	. . .	1,623,077	247,336
G. B. Markle & Co.,	Jeddo,	Luzerne county,	73,108	Es. 146,216	178			
G. B. Markle & Co.,	Jeddo,	Luzerne county,	14,123	28,246	80			
G. B. Markle & Co.,	Jeddo,	Luzerne county,	57,076	114,152	152			
G. B. Markle & Co.,	Jeddo,	Luzerne county,	83,968	167,936	162			
Coxe Brothers & Co.,	Jeddo,	Luzerne county,	117,722	211,152	316	. . .	134,635	
Coxe Brothers & Co.,	Jeddo,	Luzerne county,	31,155	55,111	106			
Linderman, Skeer & Co.,	Stockton,	Luzerne county,	186,426	Es. 372,852	500	. . .	116,000	
Linderman, Skeer & Co.,	Hazleton,	Luzerne county,	40,605	70,000	140	. . .	55,000	
Waterman & Beaver,	Danville,	Luzerne county,	305,496	520,000	706	600,000	199,867	59,941
Waterman & Beaver,	Danville,	Luzerne county,	20,130	27,500	26	. . .	14,547	3,070
Glenwood Coal Company,	Scranton,	Luzerne county,	16,325	32,815	219	. . .	39,385	9,013
Glenwood Coal Company,	Scranton,	Luzerne county,	47,638	95,753	260	. . .	62,550	14,315
Hillside Coal and Iron Company,	Scranton,	Luzerne county,	67,359	135,392	333	. . .	88,500	14,166
Susqueh'a C. Co., Breaker No. 1,	Nanticoke,	Luzerne county,	178,280	321,438	720	4,136,800	677,804	228,206
Susqueh'a C. Co., Breaker No. 2,	Nanticoke,	Luzerne county,	257,245	463,812	693			

Susqueh'a C. Co., Breaker No. 3,	Nanticoke, . . .	Luzerne county, .	147,836	266,548	422			
Roaring Brook Coal Company, .	Scranton, ...	Luzerne county, .	90,137	142,301	319	200,000	104,205	32,869
H. Baker Hillman, ...	Wilkesbarre, . .	Luzerne county, .	40,000	80,000	125	. . . . . .	60,000	15,000
A. J. Davis, ...	Wilkesbarre, . .	Luzerne county, .	32,000	75,000	168	100,000	58,000	11,000
Franklin Coal Company, ...	Wilkesbarre, . .	Luzerne county, .	82,300	164,600	275			
Pennsylvania Coal Company, . .	Pittston, ...	Luzerne county, .	981,780	1,963,560	2,616			
Spring Mountain Coal Company,	Jeansville, . . .	Luzerne county, .	252,305	475,000	627	50,000	256,000	50,000
Upper Lehigh Coal Company, .	Upper Lehigh, .	Luzerne county, .	250,576	504,686	469	700,000		
Harleigh Coal Company, ...	Hazleton, ...	Luzerne county, .	120,937	240,798	414	100,000	97,930	41,877
Glenwood Coal Company, . . .	Scranton, ...	Luzerne county, .	92,264	185,451	300	. . . . . .	104,800	21,113
Filer & Livey, ...	Winton, ...	Luzerne county, .	146,274	245,326	600	250,000	225,000	
Ellemold Coal Company, ...	Wilkesbarre, . .	Luzerne county, .	40,665	80,000	225	. . . . . .	60,000	10,000
Robert S. Poole, ...	Pittston, ...	Luzerne county, .	34,857	54,600	116	35,000	33,000	
Grove Bros., ...	Pittston, ...	Luzerne county, .	. . . . . .	. . . . . .	49	. . . . . .	16,337	3,259
J. Leisenring & Co., ...	Eckley, ...	Luzerne county, .	117,311	309,404	393	150,000	110,000	26,558
A. Pardee & Co., ...	Hazleton, ...	Luzerne county, .	272,000	408,000	1,153			
Calvin Pardee & Co., ...	Hazleton, ...	Luzerne county, .	58,618	87,927	126			
William Connell & Co., ...	Scranton, ...	Luzerne county, .	141,129	232,940	645	400,000	150,398	57,982
Pittston Coal Company, ...	Pittston, ...	Luzerne county, .	80,000	160,000	453	200,000	130,000	16,000
Salem Coal Company, ...	Shickshinny, . .	Luzerne county, .	35,000	65,000	163	75,000	41,000	6,000
Charles Hutchinson, ...	Kingston, ...	Luzerne county, .	100,000	150,000	300	250,000	80,000	24,000
Butler Colliery Company, . . .	Elmira, N. Y., . .	Luzerne county, .	60,000	120,000	210	100,000	80,000	10,000
Pardee, Sons & Co., ...	Hazleton, ...	Luzerne county, .	34,924	52,386	143			
Grand total rep'ted in Luz. co.,	. . . .	. . . .	6,236,509	$11,451,061	26,346	$7,346,800	$6,196,412	$1,190,846

---

* The above statement embraces the operations of twenty-one collieries.

COAL, ANTHRACITE—Employees, Production, and Value—*Continued.*

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	POST OFFICE ADDRESS.	MINE—WHERE LOCATED.	Number of tons mined.	Value.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.
Susquehanna County:								
Hillside Coal and Iron Co., . .	Scranton, ...	Susquehanna county, .	12,253	$24,630	40	. . . . .	$7,780	$2,833
Columbia County:								
G. M. Prevorts, ...	Centralia, ...	Columbia county, . . .	39,000	$70,000	300	$75,000	$32,000	$8,000
Carbon County:								
E. B. Ely & Co., ...	New York city, . .	Beaver Meadow, Car. co ,	65,690	$131,380	200	. . . . .	$85,725	
Northumberland County:								
Mineral R. R. and Mining Co.,	Shamokin, ...	Northumberland county	10,554	Es. $21,108	320	. . . . .	98,096	$36,608
Mineral R. R. and Mining Co.,	Shamokin, ...	Northumberland county	178,672	Es. 357,324	550	. . . . .	182,414	76,056
Mineral R. R. and Mining Co.,	Shamokin, ...	Northumberland county	30,872	61,744	225	. . . . .	39,785	10,446
Mineral R. R. and Mining Co.,	Shamokin, ...	Northumberland county	9,622	19,244	160	. . . . .	17,903	5,505
Excelsior Coal Mining Co., .	Excelsior, ...	Northumberland county	37,933	75,866	236	. . . . .	38,737	4,591
William Montelius, ...	Mount Carmel, . .	Northumberland county	60,361	120,722	233	. . . . .	79,986	
J. Langdon & Co., ...	Shamokin, ...	Northumberland county	83,374	166,748	197			
Enterprise Coal Company, . .	Philadelphia, . . .	Northumberland county	80,000	160,000	215	150,000	70,993	15,673

A. A. Heim & Goodwill, . . .	Shamokin, ...	Northumberland county	52,897	Es. 105,794	286	120,000	92,313	6,500
A. A. Heim & Goodwill, . . .	Shamokin, ...	Northumberland county	15,189	30,378	96	45,000	21,358	2,200
Thomas Maton & Brother, . .	Mount Carmel, . . .	Northumberland county	10,000	20,000	41	10,000	. . . . .	200
Douty & Baumgardner, . . .	Shamokin, ...	Northumberland county	31,145	46,000	149	60,000	56,353	10,000
			$600,609	$1,184,928	2,708	$385,000	$697,938	$167,779

COAL, ANTHRACITE—

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	Number of men employed.	Number of boys employed.	Total number of men and boys employed.	Hours worked per day.	Days in operation.	Miners on contract.	Miners on wages.	Outside laborers—men.	Outside laborers—boys.	Inside laborers—men.	Inside laborers—boys.
Luzerne County:											
Lehigh & Wilkesbarre C. Co.—											
Nottingham, No. 15,	382	153	535	10	165	$2 55	$2 25	$1 50	. . .	$1 70	. . .
Reynolds, No. 16,	217	83	300	10	165	. . .	2 25	1 50	. . .	1 70	. . .
Kidder, No. 3,	191	73	264	10	175	2 75 to 3 25	. . .	1 50 to 1 90	. . .	1 40 to 2 25	$0 80 to 1 00
Breaker, No. 19,	415	166	581	10	148	2 60	2 25	1 35	. . .	1 90	. . .
Gaylord, No. 13,	308	92	400	10	180	2 65	2 25	1 50	. . .	1 70	. . .
Stanton, No. 7,	383	114	497	10	142	2 75 to 3 25	. .	1 50 to 1 90	. . .	1 40 to 2 25	80 to 1 00
Lance, No. 11,	252	78	330	10	145	2 60	2 25	1 50	. . .	1 70	. . .
No. 10 Colliery,	225	80	305	10	157	2 68	2 03	1 35	. . .	1 90	. . .
Hartford, No. 6,	364	157	521	9 to 10	145	2 50	2 03	1 35	. . .	1 67	. . .
Empire, No. 4,	610	210	820	10	166	2 75 to 3 25	. . .	1 50 to 1 90	. . .	1 40 to 2 25	80 to 1 00
Diamond, No. 1.	638	202	840	10	148	2 75 to 3 25	2 50	1 50 to 1 90	. . .	1 40 to 2 25	89 to 1 00
Del. and Hudson Canal Co.,	4,513	1,538	6,051	10	130	1 97	1 90	1 46	. . .	1 61	. . .
G. B. Markle & Co.,	148	30	178	10	122	. . .	. . .	1 35	. . .	1 48	68
G. B. Markle & Co.,	61	19	80	10	49	. . .	. . .	1 35	. . .	1 48	. . .
G. B. Markle & Co.,	124	28	152	10	119	. . .	. . .	1 35	. . .	1 48	68
G. B. Markle & Co.,	135	27	162	10	190	. . .	. . .	1 35	. . .	1 48	68
Coxe, Bro. & Co.,	243	73	316	10	177	3 10	1 83	1 35	. . .	1 56	. . .
Coxe, Bro. & Co.,	87	19	106	10	126	3 10	1 83	1 35	. . .	1 56	. . .
Lenderman, Skeer & Co.,	410	90	500	8 to 12	190	. . .	2 11	1 38	. . .	1 83	. . .
Lenderman, Skeer & Co.,	120	20	140	10	136	. . .	2 00	1 50	. .	2 00	. . .
Waterman & Beaver,	549	157	706	10	105	1 75 to 1 94	. . .	1 35 to 1 50	. . .	1 90 to 2 16	. . .
Waterman & Beaver,	22	4	26	10	. . .	3 00	. . .	1 00 to 1 55	. . .	90 to 1 40	. .
Glenwood Coal Company,	156	63	219	8 to 10	145	2 25	. . .	1 50	. . .	1 70	. . .
Glenwood Coal Company,	192	68	260	. . . . .	155	3 00	2 15	1 55	. . .	2 00	. . .
Hillside Coal and Iron Company,	248	85	333	7 to 10	230	2 30	. . .	1 55	. .	1 90	. . .
Susq. Coal Co., Breaker No. 1,	593	127	720	10	*249	1 01 per car	2 25	4 40	. . .	1 98	. . .
Susq. Coal Co., Breaker No. 2.	535	158	693	10	232	1 01 per car	2 25	1 40	. . .	1 83 to 1 98	. . .
Susq. Coal Co., Breaker No. 3,	294	128	422	10	233	1 01 per car	2 25	1 40 to 1 58	. . .	1 78	. . .
The Roaring Brook Coal Co.,	199	120	319	10	163	2 25	2 25	†	. . .	. . .	. . .
H. Baker Hillman,	107	18	125	10	172	2 25	2 00	1 35 to 1 50	. .	1 80 to 2 00	. . .
A. J. Davis,	143	25	168	10	140	2 25	2 00	1 35	. . .	1 35	. . .
Franklin Coal Company,	234	41	275	10	164	2 75					
Pennsylvania Coal Company.	2,004	612	2,616	8 to 10	226	. . .	1 75 to 2 00	1 00 to 1 50	. . .	1 40 to 2 10	$0 61 to 68

WAGES.

Inside mechanics—men.	Outside mechanics—men.	Outside mule drivers-men.	Outside mule drivers—boys.	Inside mule drivers—men.	Inside mule drivers—boys.	Dumpers.	Slate-pickers—men.	Slate-pickers—boys.	Mining overseers.	Weigh-master,	Engineer—civil.	REMARKS.
$2 25	$2 25	. . .	$1 00	. . .	$1 10	. .	$1 25	$0 50 to 90	$3 84	$1 50	. . .	Door boys, 85 cents.
2 25	2 25	. . .	1 00	. . .	1 10	. . .	1 25	0 50 to 90	3 84	1 50	. .	Door boys, 85 cents.
. . .	2 32	1 50	. . .	$1 00 to 1 90	. . .	. . .	. . .	0 50 to 1 00	4 82	. .	. .	Outside foreman, $75 per mo.
2 10	2 03 to 2 10	. . .	1 35	. . .	1 60	$1 35	1 00	0 40 to 1 00	3 50			
2 25	2 25	1 25	1 00	1 70	1 10	1 50	1 25	0 50 to 90	3 84	. . .	. . .	Door boys, 85 cents per day.
2 25 to 2 32	2 25 to 2 32	1 50	. . .	1 00 to 1 90	. .	. . .	. . .	0 50 to 1 00	4 82	. . .	. . .	Fire boss, $82 per month.
2 25	2 25	. .	1 00	1 70	1 10	1 50	1 25	0 50 to 90	3 84	1 50	. . .	Door boys 85 cents per day.
2 03	2 25	. . .	1 00	. . .	1 40	1 35	1 35	0 70	4 00	. . .	. . .	Door boys, 80 cents per day.
2 10	2 03	. . .	1 15	1 75	. . .	1 67	. .	80	4 00	. . .	. . .	Miners' laborers, $1 90 per day.
2 25 to 2 32	2 25 to 2 32	1 50	1 50	1 00 to 1 90	. . .	1 50	. . .	0 50 to 1 00	4 82	. . .	. . .	Fire boss, $82 per month.
2 25 to 2 32	2 25 to 2 32	1 50	. . .	1 00 to 1 90	. . .	. . .	. . .	0 50 to 1 00	4 82	. . .	. . .	Fire boss, $82 per month.
2 06	2 06	. . .	71	. .	85	1 46	1 44	43	3 75	1 54	3 75	Clerks, foremen, &c., $2 78 per day. Miscellaneous laborers, $1 26 per day.
1 96	1 92	. . .	1 10	1 50	95	1 35	1 09	45	2 88			
. . .	1 85	. . .	. . .	1 50	. . .	1 35	1 09	45	2 88			
1 79	1 92	. . .	1 06	1 50	95	1 35	1 09	45	2 88			
1 91	1 92	. . .	1 06	1 50	95	1 35	1 09	45	2 88			
. . .	2 12	1 35	. . .	1 56	1 06	1 35	1 10	56	4 30	. . .	. . .	Clerks and bookkeepers, $2 21; bosses, $2 08.
. . .	2 12	. . .	. . .	1 56	1 06	1 25	1 10	56	4 30			
. . .	2 66	1 00	. . .	1 70	. . .	1 33	. . .	56	2 86	. . .	. . .	Engineers, $2 00.
. .	2 50	1 00	. . .	1 93	. . .	1 00	1 33	50	. . .	. . .	. . .	Eng'rs, $2 33; foreman, $1 75.
1 80 to 2 00	2 00 to 2 07	. . .	0 93 to 1 03	1 44 to 1 60	0 93 to 1 03	1 35 to 1 50	93 to 1 03	0 50 to 55	3 46	1 50	. .	Door boys, 61c. to 68c per day.
1 89	. . .	1 12	80	1 02	. . .	. . .	. . .	52	2 69	1 89	. . .	Door boys, 61c. to 68c. per day.
2 10	2 25	. . .	75	. . .	90	1 50	1 25	47	3 75	. . .	. . .	Clerk, $1 75 per day.
2 10	2 50	. . .	80	. . .	90	1 55	1 25	50	3 75	1 54	. . .	Clerk, $1 75 per day.
2 06	2 06	. . .	71	. . .	85	1 49	1 44	43	3 60	1 54	3 60	Clerk, $2 10 per day.
2 25	2 25	1 53	1 10	1 98	1 08 to 1 20	1 40	1 00	0 40 to 80	3 84	2 25	2 75	
2 00 to 2 25	2 25	1 25	1 10	1 50 to 1 75	1 08 to 1 25	1 60	1 00	0 40 to 90	3 07	2 25		
2 25	2 25	1 53	1 10	1 65	1 17	2 07	1 00	70	3 85	1 75		
. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	† Wages paid men, from 70 cents to $2 25; wages paid boys, 70c. to $1 15.
. . .	2 25	. . .	1 35 to 1 50	. . .	1 35 to 1 50	. . .	. . .	0 50 to 60				
2 00	2 00	1 75	. . .	1 75	. . .	. .	75	. . .	3 00			
1 15 to 2 00	1 30 to 2 10	. . .	0 76 to 90	. . .	0 92 to 1 02	1 25 to 1 50	. . .	55	2 10 to 3 30	1 85 to 2 10	3 88	

COAL, ANTHRACITE—

NAME OF COLLIERY, OR PERSONS OPERATING SAME.	Number of men employed.	Number of boys employed.	Total number of men and boys employed.	Hours worked per day.	Days in operation.	Miners on contract.	Miners on wages.	Outside laborers—men.	Outside laborers—boys.	Inside laborers—men.	Inside laborers—boys.
Spring Mountain Coal Co., . . .	469	158	627	8 to 12	188	$3 75	$2 50	$1 50	. . .	$1 80	. . .
Upper Lehigh Coal Co., ...	370	99	469	10	223	2 30	2 02	1 30	. . .	1 72	. .
Harleigh Coal Co., ...	319	95	414	10	144	. . .	. . .	1 54	. . .	2 01	$1 24
Glenwood Coal Company, ...	219	81	300	8 to 10	275	2 25	. . .	1 54	. . .	1 90	. . .
Filer & Livey, ...	426	174	600	10	152	2 25	1 94	1 35	. . .	1 49	. . .
Ellenwood Coal Company, ...	136	89	225	10	100	2 00	1 80	1 35	. . .	1 50	. . .
Robert S. Poole, ...	107	9	116	10	163	2 75	. . .	1 30	. . .	2 25	. . .
Grove Bros., ...	37	12	49	6 to 10	148	2 00 to 3 00	2 50 to 3 00	1 35 to 1 60	. . .	1 80 to 2 05	. . .
J. Leisenring & Co., ...	310	83	393	9	133	2 43	2 02	1 35	. . .	1 72	. . .
A. Pardee & Co., ...	803	350	1,153								
Calvin Pardee & Co., ...	89	37	126	. . . . .	178						
William Connell & Co., ...	416	229	645	4½ to 10	140	2 80	2 10	1 35	$1 00	1 60	1 13
Pittston Coal Company, ...	453	. . .	453	10	. . .	1 80					
Salem Coal Company, ...	93	70	163	10	175	1 63					
Chas. Hutchinson, ...	248	52	300	6 to 10	225	. . .	. . .	1 00 to 1 15	. . .	. . .	. . .
Butler Colliery Company, ...	113	97	210	7 to 10	220	3 76	2 30	1 40	. . .	1 60	. . .
Pardee, Sons & Co., ...	126	17	143	. . . . .	115						
Total reported, ...	19,836	6,510	26,346								
Average, ...	. . .	. .	. . .	8 2-5	164	$2 34	$2 09	$1 33	$1 00	$1 53	$0 84
Susquehanna County:											
Susquehanna Coal Company, . .	35	5	40	7 to 10	160	$1 80	. . .	$1 40	. .	$1 50	. . .
Columbia County:											
G. M. Prevorst, ...	163	137	300	8 to 10	104	$2 50	$1 66	. . .	. . .	. . .	. . .
Carbon County:											
E. B. Ely & Co., ...	125	75	200	10	135	$2 00					
Northumberland County:											
Mineral R. R. and Mining Co., .	213	107	320	10	171	$2 05	$1 80	$1 40	. . .	$1 52	$0 90
Mineral R. R. and Mining Co., .	402	148	550	10	178	2 25	1 87	1 30	. . .	1 60	. . .
Mineral R. R. and Mining Co., .	152	73	225	10	81	2 10	1 93	1 40	. . .	1 50	. . .
Mineral R. R. and Mining Co., .	123	37	160	10	60	2 20	1 98	1 35	. . .	1 90	. . .
Excelsior Coal Mining Co., . . .	180	56	236	10	100	1 94	. . .	1 22	. . .	. . .	. . .
Wm. Montelius, ...	147	86	233	10	171	2 31	. . .	1 39	. . .	1 52	. . .
J. Langdon & Co., ...	141	56	197	10	251	1 54	. . .	1 25	. . .	1 33	1 25
Enterprise Coal Company, ...	177	38	215	9 to 10	151	2 25	. . .	1 38	. . .	1 53	76
A. A. Heim & Goodwill, ...	210	76	286	6 to 10	137	1 92	1 66	1 35	. . .	1 60	. . .
A. A. Heim & Goodwill, ...	70	26	96	8 to 10	124	1 83⅓	1 66	1 33⅓	. . .	1 58	. . .
Thomas Maton & Bro., ...	29	12	41	10	120	. . .	2 50	1 83	. . .	. .	. . .
Douty & Baumgardner, ...	115	34	149	10	155	. . .	. . .	1 40	. . .	1 40	. .
Total, ...	1,959	749	2,708								
Average, ...	. . .	. . .	. . .	9 5-12	141	$2 03	$1 91	$1 39	. . .	$1 54	$0 97

---

*In obtaining the average, the $1 01 per car reported by the Susquehanna Coal Company, was not taken into the account.

WAGES—*Continued.*

Inside mechanics—men.	Outside mechanics—men.	Outside mule drivers—men.	Outside mule drivers—boys.	Inside mule drivers—men.	Inside mule drivers—boys.	Dumpers.	Slate-pickers—men.	Slate-pickers—boys.	Mining overseers.	Weigh-master.	Engineer—civil.	REMARKS.
$2 00	$2 25	. . .	$0 70	$1 50	. . .	$1 50	. . .	$0 50	$2 75			
2 40	2 30	$1 62	90	1 72	$1 00	1 48	$1 10	45	4 00	. . .	$2 50	
. . .	2 17	. . .	1 05	1 78	. . .	. . .	1 12	0 43 to 85	3 32			
2 06	2 06	. . .	71	. . .	85	1 50	1 44	. . .	3 60	$1 54		
1 91	1 90	. . .	65 to 77	. . .	0 74 to 1 20	1 35	1 20	0 37 to 47	3 88	1 80		
2 00	2 03	. . .	1 15	. .	1 20	. . .	90	75	3 00			
1 90	1 90	1 17	. . .	. .	1 30	1 35	1 17	45	3 12	2 00		
1 98 to 2 00	1 80 to 2 20	. . .	1 00	1 75	. . .	1 50	. . .	0 45 to 60	2 50	2 05		
. . .	2 00	. . .	1 00	1 70	1 35	1 51	1 20	65	3 88			
1 82	2 00	. . .	75	1 62	1 00	1 35	1 35	50	3 50	1 50	3 50	
1 50 to 1 75	1 72	1 15	80	1 00 to 1 50	0 50 to 67	1 50	0 85 to 1 15	0 45 to 67	. . .	1 38		
1 90	2 30	1 50	90	. . .	80	1 40	. . .	45	. . .	1 85	4 80	
$2 07	$2 16	$1 28	$0 86	$1 67	$0 92	$1 47	$1 16	$0 57	$3 06	$1 67	$3 81	
$1 75	$1 75	$1 50	$0 75	. . .	$1 10	$1 40	$1 40	$0 35	$2 25			
$2 25	$2 00	. . .	$0 80	$1 00	. .	$1 00	. . .	$0 60	$2 50	. . .	$8 00	
$1 92	$1 90	. . .	$0 90	. . .	$1 27	$1 38	. . .	$0 72	$3 90			
1 67	1 80	. . .	1 07	. .	1 46	1 30	. . .	72	4 63			
. . .	2 20	. . .	1 08	. . .	1 44	1 35	. . .	85	5 00			
1 66	2 15	. . .	1 19	. . .	1 58	1 23	. . .	81	4 00			
. . .	2 16	. . .	83	1 50	75	. . .	1 05	65	3 50			
2 15	1 93	. . .	1 00	. . .	1 04	. . .	. . .	1 50 to 7 00	. . .	. . .	. . .	Per week.
1 75	1 75	. . .	83	. . .	1 10	1 33	. . .	50	2 40			
2 00	2 00	$1 38	90	1 68	. . .	1 38	92	54	5 00	. . .	. . .	Outside boss, $2 50; watchman, $1 25.
1 83	2 00	. . .	1 75	. . .	1 20	1 33⅓	1 25	74	2 50			
2 00	2 00	. . .	95	. . .	1 25	1 58⅓	1 25	75	2 50			
. . .	2 50	1 16	. . .	1 16	. . .	. . .	. . .	60	3 00			
. . .	2 15	1 25	. . .	1 75	. . .	1 25	. . .	50	5 00	. . .	. . .	Outside overseer, $5 00; slate boss, $1 86.
$1 87	$2 12	$1 26	$1 05	$1 52	$1 23	$1 33	$1 11¾	$0 70	$3 49			

TANNERIES.

ADAMS COUNTY.

J. E. Steinour & Bro.

Post office address, Arendtsville, Pa.

Persons employed, two; amount of capital employed in business, $1,500.

REMARKS.—Have done but little business during the past year. Have shipped about $5,000 worth of stock. Hides tanned cost us $3,050, and bark used about $650. Do our own work.

Miller's Tannery—John F. Miller.

Post office address, Granite Hills, Pa.

Persons employed, one; amount of capital employed in business, $1,000; amount paid annually for materials used in business, $960; value of annual product, $1,400.

REMARKS.—Do a small business; do my own work, and employ no hands.

ALLEGHENY COUNTY.

A. & J. Groetzinger.

Post office address, Allegheny City, Pa.

Persons employed, thirty-five; amount of capital employed in business, $150,000; amount paid annually for wages of employés, $17,000; amount paid annually for materials used in business, $185,000; value of annual product, $225,000. Wages per day paid employés: Beam hands, $1 66⅔; yard hands, $1 33½; rollers and spongers, $1 66⅔; bark grinders, $1 16⅔; common laborers, $1 16⅔. Hours worked per day, ten.

REMARKS.—In operation during the entire year. The wages named above are those we paid at the end of the year. The average wages paid during the year 1876 would be about $1 per week more per man. Extra hands, for unloading and piling bark, were paid at the rate of 12 cents per hour. The result of the business for the year 1876 has, like that of the preceding year, not been satisfactory to the tanner. The abnormal condition of our trade, arising chiefly from overproduction, has prevailed almost during the entire year. Tanners, in expectation of a prospective improvement of trade, bought freely of hides, etc., at comparatively high figures, and when their stock was ready for market, found no sale for it, except at ruinously low figures, which, in a good many instances, fell below the cost of production, if forced on the market. There was, under the circumstances, no other alternative left to the tanner, in order to avoid losses, either to reduce his capacity, and work only a certain quantity of stock, which he could readily dispose of when tanned, or else find another market for his surplus. Fully one third of our entire product has thus found its way principally to English, and also to German markets, where it found sale at remunerative prices. This stock, however, had to be specially prepared to meet the wants of the foreign trade. Toward the end of the year, owing to the increased exports of American leather, stocks began to accumulate abroad, business became also very dull, and prices fell off considerably, which, together with the rapid decline of gold here, rendered the export business less profitable than at the beginning.

BEDFORD COUNTY.

A. L. Hench.

Post office address, Alum Bank, Pa.

Persons employed, eight; amount paid for materials used in business, $14,000; value of annual product, $32,000. Wages per day paid employés: Tanners, $1 15⅓; beam hands, $1 27; yard hands, $1 15⅓; rollers and spongers, $1 27; bark grinders, $1 15⅓; engineers, $1 30.

Remarks.—Production, Buenos Ayres and oak slaughter sole. On account of the dullness of the times, tannery has not been run to its full capacity, but has been in operation during the entire year.

J. B. Hoyt & Co.

Post office address, Everett, Pa.

Persons employed, sixty; amount of capital employed in business, $250,000; amount paid annually for wages of employés, $20,000; amount paid annually for materials used in business, $75,000; value of annual product, $300,000. Wages per day paid employés, $1 25 to $1 75.

Remarks.—Pay apprentices $1 50 per day, and youth employed, 75 cents. Work eleven hours each day, and in operation during the entire year.

A. Haderman & Son.

Post office address, New Enterprise, Pa.

Persons employed, four; capital employed in business, $6,000; amount paid annually for wages of employés, $200; amount paid annually for materials used in business, $2,969 26; value of annual product, $5,379 62. Wages per day paid employés: Tanners, $1; apprentices, 20 cents.

Remarks.—In the number of persons employed, are included the owners. Our business, during the past year, has not been so good. Owing to the scarcity of money through the country, stock was sold in eastern market much too low for the benefit of tanners. You will notice that our annual product is not as large as capital invested. The cause of this is, that we had a lot of leather lying in market, unsold, from last year. We are working with as few men as possible, both partners being able to work; consequently we do not hire much. Have one young man as apprentice for three years. This being his first year, his daily wages do not amount to much. Tanners could have done some better, had they not been so fast in paying high prices for hides. Trade, at this time, is brisk. People are looking forward to better times, and have more confidence in business than usual.

Chestnut Ridge Tannery.

Post office address, Schellsburg, Pa.

REMARKS.—Persons employed, five. I do a mixed business, which makes it difficult to detail a statement, as per classification. We tan all kinds of hides, from sole down, and farm some eighty acres of land, in connection with the tannery. Between the two occupations, employ some five hands; say two regularly in the tan-yard, and three others, off and on, between the two. We pay the regular tanners about 70 cents per day, (say two men,) and three more hands, say an average of 55 cents per day, last year. Sometimes an extra boy or two employed for short seasons, at about half pay, 40 cents per day. We have no hands confined to any special work. Even the fireman, (engineer,) engages in "yard" and other work.

Our special business is tanning light hides—fifty pounds weight out of salt—and including all, some kips, and some calf, and some heavy sole hides, we tanned, last year, about 1,700 to 1,800 hides, making 3,400 to 3,600 sides when tanned. These hides cost us, last year, an average of $4 25, and the leather (in rough) sold at an average of 28 cents per pound. We purchased, last year, about one hundred and eighty cords of bark, at an average cost of $5 25 per cord.

The tanning interests of the country have remained depressed, for the special kinds we have been turning out, and the profits of our business have decreased. Cannot give the exact positive causes tending to this result, but think one operating cause against the interest of the business has been the shipping of too many light hides to England and the Continent, thus keeping the supply at home low, and enabling sellers to more control prices on a stiff scale, compared with the price of the leather when tanned. As for the sole leather interests, we think there has been an overamount of capital invested in tanning in the hemlock districts of our country, producing, to some extent, overproduction. This interest found some relief in foreign wants. In anything under harness leather in weight, Europe can manufacture about as cheaply as we can, and in the matter of calf, morocco, and linings, more cheaply; and adhering to the system we do in raising revenue for the wants of the government, these articles ought to be taxed all they will bear, not to amount to prohibition. Such articles as French calf, morocco, serges, &c., may be viewed in the light of luxuries, and all the custom duties they will bear should be put on. I believe, also, that the general interests of the State would be benefited, in the round, if legislation would relieve manufacturing buildings from taxation.

BERKS COUNTY.

Henry Kerper.

Post office address, Reading, Pa.

Persons employed, thirteen; amount of capital employed in the business, $25,000; amount paid annually for wages of employés, $6,000; amount paid annually for materials used in business, $28,000; value of annual product, $35,000 to $40,000. Wages per day paid employés: Tanners, $1 to $1 40; beam hands, $1 33 to $1 50; yard hands, $1 33; bark grinders, $1; curriers, $2 to $2 50; foreman, $2 50.

REMARKS.—Work ten hours a day. It is rather a difficult matter to give a clear statement of operations during the past few years, as stagnant periods have existed when it was hard to dispose of manufactured goods, and at times necessitating a suspension of work. Extra labor would be required to start up again in the spring, while taking in the supply of bark. Overproduction in the leather trade has prevented tanners from having any margin of profit, and many have suffered severely in consequence. They continued work, expecting a change for the better, which has not been realized. Those who found a foreign market for their goods were also disappointed, in not obtaining such prices as they expected. It is a difficult matter to account for the dullness of trade, and it is sincerely to be hoped that methods of some kind will be adopted to bring about a change to prosperity.

S. B. Seidel & Sons.

Post office address, Shoemakerville, Pa.

Persons employed, four; capital employed in business, $15,000; amount paid annually for wages of employés, $1,800; amount paid annually for materials used in business, $14,000; value of annual product, $16,000. Wages per day paid employés: Tanners, $1 50; curriers, $1 50.

REMARKS.—Work eleven hours per day, and in operation during three hundred days of the year.

BLAIR COUNTY.

William Smith.

Post office address, Duncansville, Pa.

Persons employed, nine; capital employed in business, $30,000; amount paid annually for wages of employés, $3,500; amount paid annually for materials used in business, $25,000; value of annual product, $35,000. Wages paid employés per day: Beam hands, $1 60; yard hands, $1 20; bark grinders, $1; common laborers, $1.

REMARKS.—Work ten hours per day, and tannery in operation three hundred and ten days of the year. Trade has been dull, owing to depression in other industries in the past, and overproduction. Tanners are hopeful, however, and generally expect better times soon.

Daniel P. Ray, Sr.

Post office address, Tyrone, Pa.

Persons employed, twenty-four; capital employed in business, $30,000; amount paid annually for wages of employés, $10,700; amount paid annually for materials used in business, $210,872 04; value of annual product, $285,866. Wages per day paid employés: Tanners, $2 60; beam hands, $1 83⅓ and $1 33⅓; yard hands, $1 20; rollers and spongers, $2 50 and $1 33⅓; bark grinders, $1 25; common laborers, $1 10.

REMARKS.—Work ten hours per day, and tannery in operation three hundred and ten days of the year.

BRADFORD COUNTY.

Underhill & Noble.

Post office address, Athens, Pa.

Persons employed, thirty; capital employed in business, (including value of property,) $100,000; amount paid annually for wages of employés, $12,500. Wages per day paid employés: Beam hands, $1 35; yard hands, $1 25; rollers and spongers, $1 35; bark grinders, $1 25; engineers, $1 37; clerks, $2; common laborers, $1 25.

REMARKS.—Work ten hours per day, and in operation three hundred days of the year.

Gleason & Irvin.

Post office address, Canton, Pa.

Persons employed, five; capital employed in business, $27,000; amount paid annually for wages of employés, $2,000; amount paid annually for materials used in business, $20,000; value of annual product, $28,000. Wages per day paid employés: Tanners, $1 50; beam hands, $1 50; yard hands, $1 34; rollers and spongers, $1 50; bark grinders, $1.

REMARKS.—In operation during entire year.

Adam Innes.

Post office address, Granville Centre, Pa.

Persons employed, twenty-two; amount paid annually for wages of employés, $10,000; amount paid annually for materials used in business, $80,000; value of annual product, $125,000. Wages per day paid employés: Tanners, $1 50; beam hands, $1 50; yard hands, $1 50; rollers and spongers, $1 50; bark grinders, $1 25; engineers, $1 50; common laborers, $1 25; teamsters, $1 50.

REMARKS.—Work ten hours per day, and tannery in operation three hundred and twelve days of the year.

Daniel Innes.

Post office address, Grover, Pa.

Persons employed, twenty-four; capital employed in business, not stated; amount paid annually for wages of employés, $12,000; amount paid annually for materials used in business, $94,000; value of annual product, $150,000. Wages per day paid employés, average $1 50.

REMARKS.—Work ten hours per day, and in operation three hundred and twelve days of the year. Trade has been fair, and, if war in Europe continues, will improve.

BUCKS COUNTY.

N. Wambold.

Post office address, Sellersville, Pa.

Persons employed, four; capital employed in business, $4,000; amount paid annually for wages of employés, $700; amount paid annually for materials used in business, $3,000; value of annnal product, $2,000.

A. D. Atherholt.

Post office address, Tohickon, Pa.

Persons employed, three; capital employed in business, $7,000; amount paid annually for materials used in business, $4,500; value of annual product, $5,000. Wages per day paid employés, 75 cents, with board.

REMARKS.—Work from sunrise to sunset, and tannery in operation every day, except Sundays. Tanning has been very dull business for the last few years. Leather has been so depressed, that I could scarcely afford to manufacture it for the price which it has commanded. I cannot account for the cause.

CAMBRIA COUNTY.

Woodvale Tannery—W. H. Rosenthal.

Post office address, Johnstown, Pa.

Persons employed, twenty-five to thirty; capital employed in business, from $150,000 to $200,000; amount paid annually for wages of employés, $7,500; amount paid annually for materials used in business, about $330,000; value of annual product, $400,000. Wages per day paid employés: Beam hands, $1 50; yard hands, $1 50 to $1 75; rollers and spongers, $1 10 to $1 50; bark grinders, $1 10; common laborers, $1.

REMARKS.—The stock tanned is exclusively Union crop, and, of course, the greater amount of bark used is hemlock, which is gotten from lumbering sections of this (Cambria) and adjoining counties. The supply has been abundant. The hides used are principally New York city slaughter, and a very few Texas; and a few slaughter, from the best butchers here, are tanned. The leather is marketed through Ferry street New York, entirely, and the great majority of it goes thence to the New England States. The first premium was awarded me (indirectly) at Vienna, 1873, and at Philadelphia, 1876.

Union crop, when well tanned, is pronounced, by experts, the superior stock. The trade in this leather, especially that produced by this tannery, has been quite good for the past year, and exports have been extensive, but at this time, (spring of 1877,) the volume of trade and prices have slightly depreciated, though the production of this tannery is slightly increased. The dullness of trade in this leather, and the inquiry for cheaper stock, is not altogether owing to hard times, but, in my opinion, is because our people, both as dealers, (to a considerable extent,) and as consumers, (principally,) have not yet learned to appreciate the advantages of a really superior quality of leather, and do not sufficiently discriminate between good and inferior. Not one fourth of the men engaged in the manufacture of leather are thoroughly practical workmen, which makes it harder for the few to establish public sentiment on the side of the right. It is a fact that the buyer or consumer, in all manufactured articles, looks to the manufacturer and dealer, who are supposed to be experienced, for their education on the subject, and this is too much the case in leather. When the people learn to apply the tests, and discriminate in favor of the most serviceable article, then the proportion in qualities will be reversed. "The best is always cheapest." This is peculiarly true in leather.

Summer Hill Tannery—John E. Hare.

Post office address, Summer Hill, Pa.

Persons employed, none, (do my own labor in tannery;) capital employed in business, $1,000; amount paid annually for materials used in business, $265; value of annual product, $550.

REMARKS.—Do business on a limited scale, in a small tannery. The tanning business has been poor for some years.

CAMERON COUNTY.

Hamilton, Martin & Co.

Post office address, Emporium, Pa.

Persons employed, forty; capital employed in business, $200,000; amount paid annually for wages of employés, $18,000; amount paid annually for materials used in business, $100,000; value of annual product, $176,000. Wages per day paid employés: Tanners, $2; beam hands, (paid by the side,) 4½ cents per side; yard hands, $1 30; rollers and spongers, $1 20 and $1 30; sweaters, $1 75; carpenter, $1 85; fireman, $1 45; bark grinder, $1 20; common laborers, $1 20.

REMARKS.—We are dry hide tanners, using mainly Buenos Ayres hides, and tan with liquors made from hemlock bark. Our capacity is really about fifty thousand sides, but we have never worked that number. Last year we worked forty-two thousand. The number of men given, is the number used in and about the works, and does not include those who get out bark, most of which we buy.

B. F. Sherwood.

Post office address, Sterling Run, Pa.

Persons employed, thirty to seventy-five; capital employed in business, $100,000 to $125,000; amount paid annually for wages of employés, $15,000; amount paid annually for materials used in business, $115,000; value of annual product, $175,000; wages per day paid men, $1 25 to $1 35.

CARBON COUNTY.

Hailer & Brother.

Post office address, Lehigh Gap, Pa.

Persons employed, one; capital employed in business, $5,000; amount paid annually for wages of employés, $480; amount paid annually for materials used in business, $2,967; value of annual product, $3,700.

REMARKS.—One man does all kinds of work, beam, yard, and bark grinding. Trade has been very dull, and we do as little as we can.

Bennett & Dunk.

Post office address, Stroudsburg, Pa.

Persons employed, thirty; capital employed in business, $32,000; amount paid annually for wages of employés, $11,500; amount paid annually for materials used in business, $7,580; value of annual product, $45,590. Wages per day paid employés: Tanners, $1 50; curriers, $2; splitters, $3; shavers, $2 50; table hands, scourers, $2 50; blackers, $1 50; finishers, $2 50; apprentices, 75 cents and $1.

REMARKS.—Work ten hours a day, and in operation three hundred and four days of the year. Trade "flat, stale, and unprofitable." Causes are matters of opinion, and are as various as the number of persons giving them. In our opinion, there is too much anxiety to do business in the face of a small demand.

CENTRE COUNTY.

Kurtz & Stover.

Post office address, Aaronsburg, Pa.

Persons employed, two; capital employed in business, $1,800; amount paid annually for materials used in business, $1,500; value of annual product, $2,000.

REMARKS.—We tan on a small scale, and do our own currying and finishing. Business has been very dull, but at present is looking up, on account of the present war in Europe.

Daniel Moser.

Post office address, Boalsburg, Pa.

Persons employed, one; capital employed in business, $2,400; amount paid annually for wages of employés, $200; amount paid annually for materials used in business, $1,471; value of annual product, $2,000.

James L. Sommerville.

Post office address, Bellefonte, Pa.

Persons employed, eight; capital employed in business, $25,000; amount paid annually for wages of employés, $3,084; amount paid annually for materials used in business, $27,940; value of annual product, *$33,171. Wages per day paid employés: Engineers, $1 66; beam hands, $1 25; yard hands, $1 25; rollers and spongers, $1 25; bark grinders, $1 20; common laborers, $1.

REMARKS.—Work nine hours a day, and in operation three hundred days of the year.

C. H. Shiffler.

Post office address, Centre Hall, Pa.

Persons employed, two; capital employed in business, $500.

REMARKS.—Business dull.

J. F. Montgomery & Brother.

Post office address, Howard, Pa.

Persons employed, two; capital employed in business, $2,400; amount paid annually for materials used in business, $1,465; value of annual product, $2,322.

REMARKS.—We do our own work, and employ no hands.

Baird's Tannery—William Baird.

Post office address, Milesburg, Pa.

Persons employed, two to three; capital employed in business, $2,000; amount paid annually for wages of employés, $700; amount paid annually for materials used in business, $1,500; value of annual product, $3,000. Wages per day paid employés: Tanners, $1.

REMARKS.—Work ten hours a day, and in operation three hundred and thirteen days in the year.

---

* Net value of sales for 1876.

CHESTER COUNTY.

John Gilfillan.

Post office address, Coatesville, Pa.

Persons employed, four; capital employed in business, $14,000; amount paid annually for wages of employés, $1,700; amount paid annually for materials used in business, $9,360; value of annual product, $14,500. Wages per day paid employés: Tanners, $1 33⅓; curriers, $1 50.

REMARKS.—Work ten hours a day, and in operation during the entire year. Trade has not been remunerative for the past two or three years, but the outlook is better for the year upon which we have entered. Do not run tannery to its full capacity.

M. B. Chambers.

Post office address, Marshallton, Pa.

Persons employed, six; capital employed in business, $15,000; amount paid annually for wages of employés, $4,000; amount paid annually for materials used in business, $20,282; value of annual product, $27,849.

REMARKS.—Pay employés by the week. Beam hands receive $11, and tanners from $6 to $7 20.

CLARION COUNTY.

S. D. Myers.

Post office address, Callensburg, Pa.

Persons employed, three; capital employed in business, $1,500; amount paid annually for wages of employés, $250; amount paid annually for materials used in business, $1,000; value of annual product, $1,800.

Greenville Tannery—Joseph Craig.

Post office address, Limestone, Pa.

Persons employed, three; capital employed in business, $3,000: amount paid annually for wages of employés, $400; amount paid annually for materials used in business, $2,600; value of annual product, $5,200.

CLEARFIELD COUNTY.

R. Shirk.

Post office address, Clearfield, Pa.

Persons employed, seven; capital employed in business, $50,000; amount paid annually for wages of employés, $3,375; amount paid annually for materials used in business, $15,000; value of annual product, $30,000. Wages per day paid employés: Tanners, $1 50; beam hands, $2; yard hands, $1 50; bark grinders, $1; foreman, $2; engineers, $1 50; common laborers, 75 cents.

Remarks.—Work ten hours a day, and in operation three hundred days of the year. The tannery is run by steam, and the style of manufacture is exclusively "rough leather." Business has been rather dull during the past year, but from what cause, I am not able to form a correct opinion.

W. S. White & Son.

Post office address, Osceola Mills, Pa.

Persons employed, sixty; capital employed in business, $140,000; amount paid annually for wages of employés, $30,000; amount paid annually for materials used in business, $250,000; value of annual product, $350,000. Wages per day paid employés: Tanners, $1 50; beam hands, $2; yard hands, $1 50; rollers and spongers, $1 50; bark grinders, $1 50; common laborers, $1 20.

Remarks.—Work ten hours a day, and in operation three hundred days of the year. Tan "Union crop" sole leather exclusively, from Texas and South American hides.

CLINTON COUNTY.

Kistler Brothers.

Post office address, Lock Haven, Pa.

Persons employed, fifty; capital employed in business, $125,000; amount paid annually for wages of employés, $18,000; amount paid annually for materials used in business, $197,260; value of annual product, $249,600. Wages per day paid employés: Tanners, $1 17; beam hands, $1 25; yard hands, $1 17; rollers and spongers, $1 50; bark grinders, $1 00; common laborers, $1 00.

Remarks.—Work ten hours a day, and in operation during three hundred days of the year.

CUMBERLAND COUNTY.

Waggoner & Shively.

Post office address, Newville, Pa.

Persons employed, five; capital employed in business, $9,600; amount paid annually for wages of employés, $1,353; amount paid annually for materials used in business, $6,790; value of annual product, $11,530. Wages per day paid employés: Beam hands, $1 25; yard hands, $1 25; curriers, $1 37½; bark grinders, $1 00; common laborers, $1 00.

Remarks.—Work ten hours a day. Business has been very dull during the past year, owing, as we think, to the stringent state of the financial affairs of the country, and also to the seeming surplus of stock in the leather trade. There are others, however, more extensively engaged in the leather trade who should be able to give more interesting and useful information to the general public.

D. F. Stager.

Post office address, Mechanicsburg, Pa.

Persons employed, three; capital employed in business, $6,500; amount paid annually for wages of employés, $200; amount paid annually for materials used in business, $4,500; value of annual product, $6,000.

REMARKS.—Do nearly all our work ourselves, and seldom employ hands. Trade has been dull, but is somewhat better than it was a year ago.

DAUPHIN COUNTY.

Josiah P. Stine.

Post office address, Elizabethville, Pa.

Persons employed, one; capital employed in business, $1,700; amount paid annually for materials used in business, $720; value of annual product, $980.

REMARKS.—Do all the work of the tannery myself, grinding bark by water power. Business very dull.

Josiah Matter.

Post office address, Enders, Pa.

Persons employed, two; capital employed in the business, $3,000; amount paid annually for wages of employés, $300.

Samuel B. Ramberger.

Post office address, Gratz, Pa.

Persons employed, one; capital employed in business, $2,000; amount paid annually for wages of employés, $300; amount paid annually for materials used in business, $2,000; value of annual product, $3,000.

Conrad Baur.

Post office address, Halifax, Pa.

Persons employed, two; capital employed in business, $3,000; amount paid annually for wages of employés, $300; amount paid annually for materials used in business, $1,500; value of annual product, $2,000.

S. McIlhenny.

Post office address, Linglestown, Pa.

Persons employed, two; capital employed in business, $5,000; amount paid annually for wages of employés, $300; amount paid annually for materials used in business, $2,800; value of annual product, $4,200.

Simon Wert.

Post office address, Millersburg, Pa.

Persons employed, two; amount paid annually for materials used in business, $1,528; value of annual product, $2,500.

J. & C. Swab.

Post office address, Pillow, Pa.

Persons employed, three; capital employed in business, $3,412; amount paid annually for wages of employés, $700; amount paid annually for materials used in business, $3,000; value of annual product, $4,456. Wages per day paid employés: Tanners, $1 00; curriers, $1 00.

Remarks.—A small tannery, run by horse power. Trade has been dull. Little demand for stock.

ELK COUNTY.

W. H. Osterhout.

Post office address, Ridgway, Pa.

Persons employed, ninety; capital employed in business, $650,000, including value of bark lands; amount paid annually for wages of employés, $36,000; amount paid annually for materials used in business, $500,000; value of annual product, $650,000. Wages per day paid employés: Beam hands, $1 25; yard hands, $1 25; rollers, $1 25; spongers, $1 10; bark grinders, $1 00; common laborers, $1 00.

Remarks.—Work eleven hours a day, and in operation about three hundred and ten days of the year. At present trade is rather dull, and this has been the case since the commencement of the present year. Think the main cause of the low prices now ruling is due to overproduction.

Grant & Horton.

Post office address, Ridgway, Pa.

Persons employed, sixty; capital employed in business, $175,000; amount paid annually for wages of employés, $25,000; amount paid annually for materials used in business, $200,000; value of annual product, $300,000. Wages per day paid employés: Tanners, $1 25; beam hands, $1 25; yard hands, $1 25; rollers and spongers, $1 25; bark grinders, $1 00; common laborers, $1 00: teamsters, $1 25.

REMARKS.—Business is, and has been for past four years, remarkably dull. The cause, in our opinion, is because it is overdone—too much leather made. There will be too much made as long as tanners don't know any more than they do now. Many business men have an idea that the eastern war, if it proves to be anything of a scrimmage, will enhance the price of leather. How this can be the case with two ignorant nations, who have never worn anything but half tanned, or rawhide shoes, and who will probably go barefooted during the war, we are unable to perceive. Should it prove true, however, the leather business here would be unduly stimulated, and "virtue would cease to be its own reward," worse than ever before.

ERIE COUNTY.

C. E. Gunnison & Co.

Post office address, Erie, Pa.

Persons employed, fourteen; capital employed in business, $40,000; amount paid annually for wages of employés, $6,000; amount paid annually for materials used in business, $26,000; value of annual product, $45,000. Wages per day paid employés: Beam hands, $1 50; yard hands, $1 50; curriers, $1 75; common laborers, $1 25.

S. Y. Rossiter.

Post office address, Girard, Pa.

Persons employed, three; capital employed in business, $7,000 to $15,000; amount paid annually for wages of employés, $800; amount paid annually for materials used in business, $12,000 to $20,000; value of annual product, $16,000 to $25,000.

REMARKS.—The average pay of employés is $21 00 per month, with board. Profits of business have been small, the principal cause of which, we think, is owing to over-production.

FOREST COUNTY.

G. Brooks & Co.

Post office address, Brookstown, Pa.

Persons employed, ninety for half the year; and three hundred and fifty during the other half; capital employed in business, $350,000; amount paid annually for wages of employés, $90,000; amount paid annually for materials used in business, $300,000; value of annual product, $425,000. Wages per day paid employés: Tanners, $3 00; beam hands, $1 80; yard hands, $1 58; rollers and spongers, $1 58; bark grinders, $1 43; bark peelers and teamsters, $1 43; common laborers, $1 43.

REMARKS.—Work about eleven hours a day, and the tannery is in operation three hundred and thirteen days of the year. The dullness of trade in our line during the past two or three years, we consider a result of the following causes combined: A reduction of the fever of speculation; excessive individual economy; uncertainty as to the future cause of business; paper money; the demonetization of silver, and too much legislation on commercial matters.

FRANKLIN COUNTY.

John H. Walker.

Post office address, Fannetsburg, Pa.

Persons employed, five; capital employed in business, $7,000; amount paid for wages of employés, $700; amount paid for materials used in business, $6,500; value of annual product, $11,000. Wages per day paid employés: Curriers, $2; tanners, $1 10.

Remarks.—Business, chiefly the manufacture of harness, upper leather, and calfskins. Finish about one third of our annual production, and work up about $1,500 worth of leather into horse collars and saddlery.

Andrew Stiffel.

Post office address, Greencastle, Pa.

Persons employed, two; amount paid annually for wages of employés, $477; amount paid annually for materials used in business, $3,500; value of annual product, $5,250. Wages per day paid employés: Tanners, $1 17; bark grinders, 50 cents.

Remarks.—Business has been and remains dull. Cause, overproduction and forced sales at ruinous prices.

Solomon Sentman.

Post office address, Roxbury, Pa.

Persons employed, two; capital employed in business, $2,000; amount paid annually for wages of employés, $525; amount paid annually for materials used in business, $4,690; value of annual production, $5,280. Wages per day paid employés: Tanners, $1 25.

Remarks.—I employ but one tanner, besides myself, and he works at all branches of the business. In the foregoing statement, I have taken no account of my individual labor.

M. D. Miller.

Post office address, Upper Strasburg, Pa.

Persons employed, five; capital employed in business, $5,000; amount paid annually for wages of employés, $1,000; amount paid annually for materials used in business, $3,000; value of annual product, $5,800. Wages per day paid employés: Tanners, $1 00; beam hands, $1 50; yard yards, 90 cents; bark grinders, 75 cents; common laborers, $1 00.

Remarks.—Work ten hours a day, and in operation about two hundred and eighty days of the year.

FULTON COUNTY.

Rowland Austin.

Post office address, Saluvia, Pa.

Persons employed, nine; capital employed in business, $30,000; amount paid annually for wages of employés, $2,500; amount paid annually for materials used in business, $28,660; value of annual product, $37,500. Wages per day paid employés: Beam hands, $1 30; yard hands, $1 00; rollers and spongers, $1 25; bark grinders, 90 cents; common laborers, 90 cents.

REMARKS.—Business dull, caused by overproduction. With confidence restored, and the system of "from hand to mouth" supplies supplanted by a more liberal spirit, the overproduction would be lessened, if not entirely removed, sufficient at least to bring about a more healthy state of trade. All things considered, the future is more hopeful, and the "long lane" that has held the tanners to a certain line seems not far off from the turn that must come. Owing to the decline in the price of leather, the amount of production in value must this year reach a lower figure than for any one year previous, at least with those who manufacture sole leather exclusively.

GREENE COUNTY.

M. M. Herrington.

Post office address, Whitely, Pa.

Persons employed, two; capital employed in business, $1,500; amount paid annually for materials used in business, $850; value of annual product, $2,000.

HUNTINGDON COUNTY.

Peter Kean.

Post office address, Alexandria, Pa.

Persons employed, four; capital employed in business, $3,500; amount paid annually for wages of employés, $1,000; amount paid annually for materials used in business, $2,350; value of annual product, $4,500.

REMARKS.—This tannery is engaged in the manufacture of rough leather, and does a yearly business of about eight hundred hides, but will fall below this about two hundred this year, owing to the scarcity of hides. We work all country hides, which could not be obtained at prices to warrant the carrying of a very large stock, owing to the unsettled condition of the leather market, which has been very poor, making the manufacture of rough leather an unprofitable business. The greater part of our leather goes into the hands of finishers, who manufacture it into upper and harness leather, and when the panic came on it affected the shoe manufacturers, and made the rough leather business about as unprofitable as it could well be, although at the present time things look brighter in our line, and the prospects are that the market is about settled.

Austin Green.

Post office address, Cassville, Pa.

Persons employed, two; capital employed in business, $795; amount paid annually for wages of employés, $150; amount paid annually for materials used in business, $645; value of annual product, $1,465.

Remarks.—Trade is dull, owing, I think, to the scarcity of money and a limited foreign demand for leather.

Estate of Jeremiah Baum.

Post office address, Mapleton, Pa.

Persons employed, twelve; capital employed in business, $60,000; amount paid annually for wages of employés, $7,885; amount paid annually for materials used in business, $55,900; value of annual product, $67,200. Wages per day paid employés: Tanners, $2 56; engineers, $2 50; beam hands, $1 35; yard hands, $1 25; bark grinders, $1 12; common laborers, $1 00.

INDIANA COUNTY.

P. Maher.

Post office address, Blairsville, Pa.

Persons employed, two; capital employed in business, $5,000; amount paid annually for wages of employés, $800; amount paid annually for materials used in business, $4,000; value of annual product, $10,000.

Remarks.—This tannery is known as a "country yard," with a capacity of forty hides per week, but on account of the dullness of trade during the past year, we have not worked to more than half the capacity. The business of tanning for the past three years has not been prosperous. In fact, these years have been the dullest known to many old tanners. We tan about five hundred hides, averaging sixty-five pounds in weight, into what is known as "rough oak slaughter." Also, about two hundred kips, two hundred calf skins, and one hundred sheep skins.

Charles Kerler.

Post office address, Blairsville, Pa.

Persons employed, three; capital employed in business, $8,000; amount paid annually for wages of employés, $1,500; amount paid annually for materials used in business, $9,000; value of annual product, $15,000. Wages per day paid employés: Tanners, $2 00; beam hands, $1 00; yard hands, $1 00.

Remarks.—Work ten hours per day, and three hundred days during the year. The tannery consists of a two-story frame building, steam engine, fourteen vats, four leaches, two limes, and two pools. Rolling machine, for rolling sole leather, is operated by steam.

Nicholas Peddicord.

Post office address, Brush Valley, Pa.

Capital employed in business, $2,000; value of annual product, $3,500.

John Reed.

Post office address, Saltsburg, Pa.

Persons employed, one; capital employed in business, $1,000; amount paid annually for materials used in business, $1,000; value of annual product, $1,700.

JUNIATA COUNTY.

Jacob Smith.

Post office address, McAllisterville, Pa.

Persons employed, four; capital employed in business, $3,200; amount paid annually for wages of employés,.$1,050; amount paid annually for materials used in business, $6,344; value of annual product, $9,041.

William G. Winey.

Post office address, Richfield, Pa.

Persons employed, two; amount paid for wages of employés, $100.

Solomon Lieber.

Post office address, Thompsontown, Pa.

Persons employed, one; capital employed in the business, $1,050; amount paid annually for materials used in business, $550; value of annual product, $1,000.

LANCASTER COUNTY.

G. W. Sensenich.

Post office address, Beartown, Pa.

Persons employed, three; capital employed in business, $5,000; amount paid annually for wages of employés, $900; amount paid annually for materials used in business, $3,063; value of annual product, $4,600. Wages per day paid employés: Tanners, $1 00; curriers, $1 06.

A. H. Myers & Co.

Post office address, Lancaster, Pa.

Persons employed, eleven; capital employed in business, $35,000; amount paid annually for wages of employés, $3,525; amount paid annually for materials used in business, $29,000; value of annual product, $36,000.

Remarks.—Pay employés in tannery, from $1 00 to $1 50 per day; apprentices receive from 35 cents to 75 cents per day.

Amos Hollinger.

Post office address, Lancaster, Pa.

Persons employed, eighteen; capital employed in business, $40,000, (outside of real estate;) amount paid annually for wages of employés, $7,028; amount paid annually for materials used in business, $38,821; value of annual product, $48,959. Wages per day paid employés: Tanners, $1 50; yard hands, $1 00; curriers, $1 66; table hands, $1 30; blackers, $1 30; engineers, $1 75; clerks, $2 16; salesman, $2 00; bark grinders, $1 00; common laborers, $1 00.

Remarks.—Product, harness leather; tanning capacity, three thousand five hundred hides per annum; finishing capacity, five thousand hides per annum. The average capacity is, therefore, about ten thousand *sides* of harness leather yearly.

Business has been dull in general during the past year. A few weeks of moderately active business was followed invariably by months of dull trade, and as far as I have been able to ascertain through the Tanners' Association of Pennsylvania, this has been the experience of all the tanners who do enough business to be able to form a general idea, whether tanners of sole leather or other kinds.

As to the cause of this state of affairs in our trade, my idea is that it is due, to a certain extent at least, to overproduction, which can only be relieved by a foreign market for more of our leather.

Second, my idea is that the general shrinkage in values has depleted the pockets of every citizen of the United States to a certain extent, and the consumption of leather is vastly curtailed in our country on that very account.

The great business problem in our trade for the last three years has been to manage it so that we should keep even, and still continue on. The business man who has succeeded in keeping his business running for the last three years, and giving employment to his men, without going backward, has done well for himself, his employés, and for his country, although the most of us do not look at the matter in that way.

J. W. Leidigh.

Post office address, Paradise, Pa.

Persons employed, five; capital employed in business, $15,000; amount paid annnally for wages of employés, $1,550; amount paid annually for materials used in business, $7,500; value of annual product, $11,600. Wages per day paid employés: Tanners, $1 75; beam hands, $1 50; yard hands, $1 44; curriers, $1 66; bark grinders, 65 cents.

Remarks.—I tan and finish calf skin, upper, and harness leather for home trade only. The balance of my leather, which is the larger part, is sold in the rough. I have a small farm in connection with tannery, the work on it being done by the yard hand and bark grinder, with the assistance of other hands in hay-making and harvest, so that is impossible to give you the statistics as accurate as I should wish. Trade has been fair, there being a good demand for my manufacture at all times. The prices sometimes not as satisfactory as I could wish, but, upon the whole, I have no cause for complaint and much to be thankful for, considering the times.

LEBANON COUNTY.

William Beaver.

Post office address, Annville, Pa.

Persons employed, seven. Wages per day paid employés: Beam hands, $1 55; yard hands, $1 40; curriers, $1 00.

David Buck.

Post office address, East Hanover, Pa.

Persons employed, three; amount paid annually for materials used in business, $3,100; value of annual product, $5,500.

J. & H. Loose.

Post office address, Myerstown, Pa.

Persons employed, six; capital employed in business, $16,000; amount paid annually for wages of employés, $1,950; amount paid annually for materials used in business, $11,780; value of annual product, $16,100. Wages per day paid employés: Tanners, $1 00; curriers, $1 50; engineers, $1 00; apprentices, 80 cents.

LEHIGH COUNTY.

Mosser & Grim.

Post office address, Allentown, Pa.

Persons employed, seventeen; capital employed in business, $40,000; amount paid annually for wages of employés, $8,720; amount paid annually for materials used in business, $54,274; value of annual product, $96,807. Wages per day paid employés. Beam hands, $1 46; yard hands, $1 46; bark grinders, $1 00; common laborers; $1 12; engineers, $2 50.

Charles Burkhalter.

Post office address, Dillingerville, Pa.

Persons employed, two; capital employed in business, $3,500; amount paid annually for wages of employés, $310; amount paid annually for materials used in business, $2,265; value of annual product, $3,800.

Egypt Tannery—A. D. Kachline.

Post office address, Egypt, Pa.

Persons employed, three; capital employed in business, $6,000; amount paid annually for wages of employés, $700; amount paid annually for materials used in business, $11,000; annual product, $19,000.

John E. Dubbs.

Post office address, Locust Valley, Pa.

Persons employed, one; capital employed in business, $3,000; amount paid annually for wages of employés, $250.

James Singmaster.

Post office address, Macungie, Pa.

Persons employed, four; capital employed in business, $10,000; amount paid annually for wages of employés, $1,400; amount paid annually for materials used in business, $7,900; value of annual product, $12,000. Wages per day paid employés: Tanners, $1 25; beam hands, $1 25; curriers, $1 25; bark grinders, 70 cents.

REMARKS.—In this section of the State oak bark is becoming scarce, and, in consequence, is high in price. For this reason many of the small tanneries will soon be forced to close, especially those that do not have railroad facilities. On account of the high price of oak bark, it has been expensive to tan slaughter leather, and for the last few years the business has not paid well.

LUZERNE COUNTY.

Rauch & Tauschert.

Post office address, Falls Run City, Pa.

Persons employed, three; capital employed in business, $15,000; amount paid annually for wages of employés, $1,400; amount paid annually for materials used in business, $10,000; value of annual product, $14,000.

Beaver Run Tanning Company.

Post office address, Ruggles, Pa.

Persons employed, nine; value of annual product, $40,600. Wages per day paid employés: Tanners, $2 00; beam hands, $1 50; yard hands, $1 25; rollers and spongers, $1 50; bark grinders, $1 25; common laborers, $1 25.

REMARKS.—Steam tannery, with a capacity of twelve thousand sides of slaughter sole leather per year.

A. B. McKinstry.

Post office address, Schultzville, Pa.

Persons employed, fifty; capital employed in business, $175,000; amount paid annually for wages of employés, $20,000; amount paid annually for materials used in business, $158,000 ; value of annual product, $240,000. Wages per day paid employés: Tanners, $4 00; beam hands, $1 35; yard hands, $1 35; rollers and spongers, $1 50; bark grinders, $1 15; common laborers, $1 15.

REMARKS.—Business has been overdone. Hides have been too high in price, and very little money has been made in the business of tanning during the past year.

LYCOMING COUNTY.

Hardenbaugh, Hartwell & Co.

Post office address, English Centre, Pa.

Persons employed, forty; capital employed in business, $50,000; amount paid annually for wages of employés, $17,000; amount paid annually for materials used in business, $90,000; value of annual product, $200,000. Wages per day paid employés: Beam hands, $1 50; yard hands, $1 25; rollers and spongers, $1 50; bark grinders, $1 25; common laborers, $1 25.

REMARKS.—Work ten hours a day, and in operation during entire year. Trade at present is brisk, the European war causing a demand for leather.

Charles Kelchner.

Post office address, Muncy, Pa.

Capital employed in business, $1,500; value of annual product, $1,200.

REMARKS.—My tannery is a small concern, and is run in connection with a small farm. No workmen are employed.

E. R. Wilkison.

Post office address, Newberry, Pa.

Persons employed, one; capital employed in business, $3,000; amount paid annually for wages of employés, 313; amount paid annually for materials used in business, $2,000; value of annual product, $3,000.

William Updegraff.

Post office address, Williamsport, Pa.

Persons employed, three; capital employed in business, $5,000; amount paid annually for wages of employés, $416; amount paid annually for materials used in business, $3,809; value of annual product, $5,700.

Remarks.—Employ one man and two boys, but do not have constant work for them. They work at all branches of the trade. Business has been dull for the past three years, and there has been no money in it for small tanners. This is partly owing to their own fault. When there is an advance in the price of leather, tanners advance the price of country hides more in proportion, and thus deprive themselves of the profit they would otherwise make.

McKEAN COUNTY.

John Ford.

Post office address, Port Allegheny, Pa.

Persons employed, two; capital employed in business, $5,000; amount paid annually for wages of employés, $300; amount paid annually for materials used in business, $4,000; value of annual product, $7,000.

Remarks—Manufacture rough upper leather. The counties of McKean, Potter, Elk, Cameron, and Forest, I think, have more hemlock bark than other portions of the State, and are best adapted to the tanning business. The climate is good, and also the water. The leather business has been very dull for the past year, owing to a lack of confidence among the people, and living and trading beyond the means to pay.

MIFFLIN COUNTY.

Spanogle & Pannebaker.

Post office address, Lewistown, Pa.

Persons employed, twenty-two; capital employed in business, $110,000; amount paid annually for wages of employés, $8,000; amount paid annually for materials used in business, $68,000; value of annual product, $90,000. Wages per day paid employés: Tanners, $2 00; beam hands, $1 50; yard hands, $1 20; rollers and spongers, $1 50; bark grinders, $1 10; common laborers, $1 10.

Remarks.—Have not been running tannery to full capacity. During the last year there has been a dullness in trade, which seems to be caused by overproduction and general depression in business.

A. T. Hilands & Co.

Post office address, Milroy, Pa.

Persons employed, two; capital employed in business, $6,662; amount paid annually for wages of employés, $900; amount paid annually for materials used in business, $6,000; value of annual product, $7,000.

Remarks.—Trade last year was very dull and unsatisfactory. Leather could not be manufactured at a profit. The cause is non-consumption, brought about by the enforced idleness of so large a part of the consuming population.

MONROE COUNTY.

Charles E. Kistler.

Post office address, Scioto, Pa.

Persons employed, twenty-two; capital employed in business, $75,000; amount paid annually for wages of employés, $8,305; amount paid annually for materials used in business, $105,135; value of annual product, $119,610. Wages per day paid employés: Tanners, $2 00; beam hands, $1 30; yard hands, $1 30; rollers and spongers, $1 30; bark grinders, $1 00; common laborers, $1 25.

REMARKS.—Work ten hours a day, and every working day during the year.

MONTGOMERY COUNTY.

John C. Morgan.

Post office address, Fairview Village, Pa.

Persons employed, three; capital employed in business, $5,500; amount paid annually for wages of employés, $1,000; amount paid annually for materials used in business, $5,000; value of annual product, $8,200. Wages per day paid employés: Tanners, $1 00; curriers, $1 60; youth, $0 75.

REMARKS.—Fairview tannery is what is now termed an old fashioned, one-horse tannery, buying materials and stock from producers first handed, selling product mostly to consumers, and striving to make an article to suit the wants of home custom.

The first six months of 1876, trade was very prosperous in regard to demand; prices were not very profitable, but still tolerably fair, and not to be complained of. During the last six months of year, prices were downward and business dull, with small demand and small margins. In some cases no profit, but toward close of year prices ran up very fast. In some lines there was an advance of twenty-five cents in two months. It seemed that manufacturers of shoes and tanners had curtailed production to such an extent that it made the market bare just at the approach of winter, a time when the people must have shoes. Manufacturers finding, in the nick of time, the scarcity, it caused a panic, and everybody wanted to buy leather and shoes. The shipping of hides and leather to Europe also helped to bring about the advance in prices, and as you ask for free expression of my opinion, I would say that while the shipment of leather (export I mean) doubtless is an advantage in relieving an overstocked market, yet I think that Pennsylvania tanners who ship leather should better appreciate the wants and tastes of consumers across the ocean, so that we might export all leather, instead of hides and leather, for it is acknowledged by all that the United States can tan leather (that is heavy leather) cheaper and better than any country in the world.

D. M. Casselberry.

Post office address, Lower Providence, Pa.

Persons employed, three; capital employed in business, $5,000; amount paid annually for wages of employés, $900; amount paid annually for materials used in business, $7,850; value of annual product, $9,300.

REMARKS.—The tanning business has been in an unhealthy state for the past three and a half years, except for a short time during last year, (from November 1 to December 31,) when trade was quite brisk, and prices advanced on some kinds of leather and hides as much as forty per cent. In giving these statistics, there is so much fluctuation in the prices of both hides and leather, that the estimates are not exactly correct, but are as near as I can make them. You will bear in mind that allowance should be made for the interest of the capital invested, both in the stock in the yard, and also for rent or the interest of the money in the real estate, and the wear and tear of machinery, &c., &c., which will make the profits on the business too small for the amount of capital and labor required in these small tanneries. Owing to the great waste of many articles made of leather, during the late war, the facilities for tanning were so enlarged that they are now able to turn out annually one third more leather than is required for consumption, in the present depressed condition of all classes of our people.

William T. Miller.

Post office address, Trappe, Pa.

Persons employed, two; capital employed in business, $2,500; amount paid annually for wages of employés, $300; amount paid annually for materials used in business, $1,000; value of annual product, $1,800.

Remarks.—This is a small country tannery, with nine lay-away vats, five handlers, two limes, and one soak. Tan principally harness leather in the rough. Do not finish.

MONTOUR COUNTY.

James Woodside.

Post office address, Danville, Pa.

Persons employed, three; capital employed in business, $7,500; amount paid annually for wages of employés, 800; amount paid annually for materials used in business, $4,000; value of annual product, $9,000. Wages per day paid employés: Tanners, $1 50; curriers, $1 75.

Remarks.—The tanning business has been extremely dull for the last year, caused by overproduction of all kinds of leather. If tanners would tan less and pay less for hides, the market would improve and fair profits would be realized. So long as our markets are overcrowded with stock, we must expect low prices to prevail.

W. D. Weidenhamer.

Post office address, Limestoneville, Pa.

Persons employed, two; capital employed in business, $3,000; amount paid annually for wages of employés, $300; amount paid annually for materials used in business, $2,000; value of annual product, $3,000.

Remarks.—This is an old-fashioned tannery, in which only one hand, who works at all branches of the trade, is regularly employed.

NORTHAMPTON COUNTY.

Ephraim Loux.

Post office address, Nazareth, Pa.

Persons employed, one; capital employed in business, $4,000; amount paid annually for wages of employés, $300; amount paid annually for materials used in business, $2,100; value of annual product, (estimated,) $3,000.

PERRY COUNTY.

James F. McNeal.

Post office address, Blain, Pa.

Persons employed, six; amount paid annually for wages of employés, $1,900; amount paid annually for materials used in business, $3,000.

George Hench.

Post office address, Carlisle, Pa. Tannery at Centre, Perry county.

Persons employed, 7; capital employed in business, $55,000; amount paid annually for wages of employés, $4,850; amount paid annually for materials used in business, $20,000; value of annual product, $30,856. Wages per day paid employés: Tanners, $1 35; beam hands, $1 35; yard hands, $1 25; rollers and spongers, $1 35; bark grinders, $1 25; common laborers, $1 00.

REMARKS.—Tan Buenos Ayres or South American hides, and make a solid article of leather, which was in great demand until shoe machinery came into use, and more especially the sewing machine, when Spanish sole was found to be too solid. Since then slaughter sole, which is softer and more spongy, and consequently better suited for the purpose, has been substituted, in a great measure, for the Spanish, yet, as I think, greatly to the detriment of the wearer, as it does not resist the damp as does the more solid Spanish sole, when well tanned and well filled with bark. At present Spanish hides are tanned principally by the hemlock tanners, who make a low priced leather for pegging. Oak sole is made into hand work, or used for repairing and mending shoes. This and overproduction has caused our line of the business to be dull.

Joseph M. Hanley.

Post office address, Duncannon, Pa.

Persons employed, two; capital employed in business, $4,000; amount paid annually for wages of employés, $550; amount paid annually for materials used in business, $3,000; value of annual product, $4,000.

REMARKS.—Our trade has been very dull. Cause, overproduction and general stagnation in business of all kinds. Prospects are somewhat brighter at the present time, and Eastern complications may enhance values here.

John A. Bechtel.

Post office address, Newport, Pa.

Persons employed, sixteen; capital employed in business, $110,000; amount paid annually for wages of employés, $8,000; amount paid annually for materials used in business, $80,000; value of annual product, $120,000. Wages per day paid employés: Beam hands, $1 50; yard hands, $1 25; rollers and spongers, $1 50; bark grinders, $1 15; common laborers, $1 15.

Remarks.—This tannery has a larger capacity—probably nearly double—than has been worked during the past three or four years. Depression in business has made the trade in leather dull. Foreign markets have also been depressed, and no shipments abroad could be made as in former years.

Joseph Howell & Co.

Post office address, Millerstown, Pa.

Persons employed, sixteen; capital employed in business, $100,000; amount paid annually for wages of employés, $9,000; amount paid annually for materials used in business, (bark,) $18,000; value of annual product, $120,000. Wages per day paid employés: Tanners, $1 50; beam hands, $1 50; yard hands, $1 50; rollers and spongers, $1 50; bark grinders, $1 10; common laborers, $1.

Remarks.—Present condition, May, 1877, of leather trade dull and stagnant, which has been the case for several months past The cause is due to overproduction and the continued high prices for raw materials. There is at present some demand for light weights of upper leather in rough, made from domestic hides, which has advanced the price from 26 to 30 cents within a month. Otherwise trade is very sluggish, and, on the whole, discouraging. The shipments to Europe only serve as an outlet to realize cost on what is sent, and very often does not yield that advantage, as the foreign markets are rigidly exacting in their requirements of quality and condition, and very little American leather is tanned or finished to meet these wants. We are of opinion, however, that the whole leather trade of this country is bound to improve before long, and that probably within the coming summer months a very much greater confidence and activity will prevail, and that prices will be somewhat higher for all kinds of leather than they are now or have been since the first of the year.

PHILADELPHIA.

Keen & Coates.

Post office address, Philadelphia, Pa.

Persons employed, twenty-four; capital employed in business, $300,000; amount paid annually for wages of employés, $11,800; amount paid annually for materials used in business, $87,400; value of annual product, $140,000. Wages per day paid employés: Tanners, $1 66; beam hands, $1 83; yard hands, $1 50; rollers and spongers, $1 66; bark grinders, $1 50; common laborers, $1 50.

Remarks.—Work ten hours a day, and in operation three hundred and eight days during the year. As the great disparity between the amount of capital employed and the value of annual product might not be understood, we would state that the annexed statement pertains to what is done at our own tannery, and the difference is made up in the value of our tannery, and in stock which we send to tanners in the State to tan for us; whose returns, we suppose, are made by themselves. We send the hides for our own account, paying them so much per pound on the weight of leather produced and returned to us.

Charles B. Williams & Sons.

Post office address, 1620 North Fifth street, Philadelphia, Pa.

Persons employed, fifteen; capital employed in business, $50,000; amount paid annually for wages of employés, $8,000; amount paid annually for materials used in business, $38,000; value of annual product, $50,000. Wages per day paid employés: Tanners, $1 50; beam hands, $1 75; yard hands, $1 50; rollers and spongers, $1 75; bark grinders, $1 50; common laborers, $1 50; foreman and engineer, each $2 00 per day.

REMARKS.—Work ten hours a day, and in operation during the entire year. Business dull and profitless, caused by general stagnation in trade and overproduction.

Beeson & Crawford.

Port office address, Philadelphia, Pa.

Persons employed, five; capital invested in business, $28,000; amount paid annually for wages of employés, $2,438; amount paid annually for materials used in business, $11,755; value of annual product, $13,000. Wages per day paid employés: Beam hands, $1 67; yard hands, $1 50; rollers and spongers, $1 67.

Wm. F. Forepaugh & Bros.

Post office address, Philadelphia, Pa.

Persons employed, twelve; capital invested in business, $45,373; amount paid annually for wages of employés, $9,000; amount paid annually for materials used in business, $30,000; value of annual product, $50,000. Wages per day paid employés: Tanners, $1 50; beam hands, $1 66⅔; yard hands, $1 50; rollers and spongers, $1 66⅔; bark grinders, $1 50; common laborers, $1 33⅓.

REMARKS.—Work ten hours a day, and in operation three hundred days during the year. Business dull, with very few orders coming in. Hope for better times soon.

Wm. Hawkins & Co.

Post office address, 206 Willow street, Philadelphia, Pa.

Persons employed, ten; capital employed in business, $20,000; amount paid annually for wages of employés, $9,000; amount paid annually for materials used in business, $9,000; value of annual product, $21,000.

SCHUYLKILL COUNTY.

D. Gensemer & Co.

Post office address, Pinegrove, Pa.

Persons employed, seven; capital employed in business, $30,000; amount paid annually for wages of employés, $1,960; amount paid annually for materials used in business, $35,000; value of annual product, $38,000.

P. M. Barrow.

Post office address, Ringtown, Pa.

Persons employed, three; capital employed in business, $5,000; amount paid annually for wages of employés, $1,600; amount paid annually for materials used in business, $12,986; value of annual product, $17,349.

REMARKS.—In the past year business has been poor, except during the months of November and December, when the demand in Philadelphia was good and prices satisfactory. A local cause for depression in business here was the dullness of the anthracite coal trade, upon which every other branch of trade in this locality, in a great measure, depends.

SNYDER COUNTY.

Ulrich & Bro.

Post office address, Selinsgrove, Pa.

Persons employed, two; capital employed in business, $900; amount paid annually for materials used in business, $800; value of annual product, $1,500.

SOMERSET COUNTY.

H. L. Dean & Bro.

Post office address, Addison, Pa.

Persons employed, two; capital employed in business, $3,000; amount paid annually for wages of employés, $200; amount paid annually for materials used in business, $800; value of annual product, $1,200.

Jonathan Miller.

Post office address, Sipesville, Pa.

Capital employed in business, $4,000; amount paid annually for materials used in business, $2,150; value of annual product, $4,000.

REMARKS.—Employ no hands. Do all the work in the tannery with members of my own family. Trade is very dull and money scarce. There seems to be a lack of currency to supply the wants of the community.

Jeremiah Wing.

Post office address, Wellersburg, Pa.

Persons employed, three; capital employed in business, $5,000; amount paid annually for wages of employés, $650; amount paid annually for materials used in business $3,500; value of annual product, $5,000.

REMARKS.—Business for the last three years has been dull. On account of the large number of tanneries started during the late war, when leather was high in price, the market has been overstocked. Since then the price has fallen to low figures, and the business has not been remunerative.

SUSQUEHANNA COUNTY.

Jasper J. Stiles.

Post office address, Gibson, Pa.

Persons employed, two; amount paid annually for materials used in business, $1,500.

REMARKS.—I manufacture rough leather for other parties, for which I am paid by the pound, and cannot therefore state value.

George Fulmer.

Post office address, Lanesboro', Pa.

Persons employed, thirty; capital employed in business, $60,000; amount paid annually for wages of employés, $9,600; amount paid annually for materials used in business, $135,000; value of annual product, $143,000.

C. S. Foster.

Post office address, Montrose, Pa.

Persons employed, two; capital employed in business, $1,000; amount paid annually for materials used in business, $2,100; value of annual product, $3,200.

A. Corbin & Co.

Post office address, New Milford, Pa.

Persons employed, fifteen; capital employed in business, $45,000; amount paid annually for wages of employés, $6,000; amount paid annually for materials used in business, $59,400; value of annual product, $70,000. Wages per day paid employés: overseer, $2 00; tanners, $1 50; beam hands, $1 25; yard hands, 1 25; rollers and spongers, $1 50; bark grinders, $1 00; common laborers, $1 25.

Henry Jenkins & Son.

Post office address, Thompson, Pa.

Persons employed, two; capital employed in business, $2,500; amount paid annually for wages of employés, $800; amount paid annually for materials used in business, $2,500 value of annual product, $5,000.

Remarks.—Trade dull, caused by overstocked market.

TIOGA COUNTY.

J. S. Harkness.

Post office address, Cherry Flats, Pa.

Persons employed, three; capital employed in business $1,200.

Remarks.—The tanning business is very dull in this section of the State. Leather is low in price, while hides are too high to make the business remunerative. The main cause of the low price of leather is probably over production.

R. R. Kingsley & Son.

Post office address, Mansfield, Pa.

Persons employed, four; capital employed in business, $15,000; amount paid annually for wages of employés, $1,500; amount paid annually for materials used in business, $10,000; value of annual product, $25,000.

R. Hammond & Co.

Post office address, Osceola, Pa.

Persons employed, twenty-five; capital employed in business, $50,000; amount paid annually for wages of employés, $9,000; amount paid annually for materials used in business, $93,000; value of annual product, $100,000. Wages per day paid employés: Tanners, $2 00; beam hands, $2 00; yard hands, $1 25; rollers and spongers, $1 25; bark grinders, $1 25; common laborers, $1 00.

H. Eberle & Bro.

Post office address, Westfield, Pa.

Persons employed, four; capital employed in business, $6,000; amount paid annually for wages of employés, $1,350; amount paid annually for materials used in business, $7,000; value of annual product, $10,000.

WARREN COUNTY.

Horton, Crary & Co.

Post office address, Sheffield, Pa.

Persons employed, one hundred and fifty; amount paid annually for wages of employés, $65,000; amount paid annually for materials used in business, $375,000; value of annual product, $505,000. Wages per day paid employés: Beam hands, $1 50; yard hands, $1 50; rollers and spongers, $1 40; bark grinders, $1 40; teamsters, $1 40; common laborers, $1 25; engineer, $1 50.

WAYNE COUNTY.

J. T. & W. Cromwell.

Post office address, Hawley, Pa.

Persons employed, thirty; capital employed in business, $40,000; amount paid annually for wages of employés, $9,000; amount paid annually for materials used in business, $65,000; value of annual product, $100,000.

REMARKS.—Men employed received one dollar per day. Work ten hours each day and three hundred and twelve days in the year.

Hefferling, Brunig & Co.

Post office address, Honesdale, Pa.

Persons employed, thirteen; capital employed in business, $30,000; amount paid annually for wages of employés, $4,800; amount paid annually for materials used in business, $60,000; value of annual product, $80,000. Wages per day paid employés: Tanners, 90 cents; beam hands, $1 25; yard hands, $1 00; rollers and spongers, $1 25: bark grinders, 90 cents; common laborers, 90 cents; foreman, $2 00.

Burton G. Morse.

Post office address, Ledgedale, Pa.

Persons employed, fifty-eight; capital employed in business, $250,000; amount paid annually for wages of employés, $26,000; amount paid annually for materials used in business, $131,000; value of annual product, $150,000.

Ira Nichols.

Post office address, Pleasant Mount, Pa.

Persons employed, twelve; capital employed in the business, $35,000; amount paid annually for wages of employés, $4,500; amount paid annually for materials used in business, $45,000; value of annual product, $55,000. Wages per day paid employés: Tanners, $1 50; beam hands, $1 50; yard hands, $1 00; rollers and spongers, $1 25; bark grinders, $1 00; common laborers, $1 00.

WESTMORELAND COUNTY.

B. E. Hebrank.

Post office address, Adamsburg, Pa.

Persons employed, three; capital employed in business, $2,500; amount paid annually for wages of employés, $700; amount paid annually for materials used in business, $2,500; value of annual product, $4,000.

James Douglass & Son.

Post office address, Latrobe, Pa.

Persons employed, three; capital employed in business, $4,000; amount paid annually for wages of employés, $800; amount paid annually for materials used in business, $4,000; value of annual product, $6,000. Wages per day paid employés: Tanners, $1 30; curriers, $1 66⅔.

Jacob Lobingier.

Post office address, Laurelville, Pa.

Persons employed, two; capital employed in business, $1,050; value of annual product, $1,600.

Remarks.—The great trouble in the tanning business is the *injustice* we are *compelled* to suffer in buying stock. When we send leather to market it has to undergo a rigid inspection—each and every side, or piece, is weighed singly and separate, and then the weight and quality is stamped on it before it can be sold. When we buy hides, (if we order them, which we generally do,) they are sent to us without seeing them weighed. As many as can be are weighed in a bulk, without any regard to kind or quality, cuts or sears, bulls, or what not. Then, added to that, hides are always too high in proportion to the prices of leather. If hides could be made to undergo the same kind of inspection that leather does, the business would be equalized. If leather is cut and seared it has to be sold at a reduction, no matter how good the tannage. On cut and damaged hides tanners get no reduction. This is very unfair and unjust, and most disastrous to tanners. While commission men are amassing fortunes, tanners are going to the wall, and there seems to be no remedy.

W. L. Chambers.

Post office address, Pleasant Unity, Pa.

Persons employed, two; capital employed in business, $2,500; amount paid annually for wages of employés, $750; amount paid annually for materials used in business, $1,200; value of annual product, $2,400.

WYOMING COUNTY.

Smith Brothers.

Post office address, Factoryville, Pa.

Persons employed, six; capital employed in business, $8,000; amount paid annually for wages of employés, $800; amount paid annually for materials used in business, $18,000; value of annual product, $19,500. Wages per day paid employés: Engineers, $1 30; wool pullers, $1 20; beam hands; 1 20; finishers, $1 00.

REMARKS.—Have found a ready sale for bark tan sheep-skin leather the past season.

Childs & Bloomer.

Post office address, Nicholson, Pa.

Persons employed, twenty; capital employed in business, $20,000; amount paid annually for wages of employés, $7,500; amount paid annually for materials used in business, $100,000; value of annual product, $105,000.

REMARKS.—Pay employés from $1 20 to $3 00 per day.

YORK COUNTY.

Joseph Deardorff & Co.

Post office address, Dillsburg, Pa.

Person employed, three; capital employed in business, $4,000; amount paid annually for materials used in business, $4,000.

H. Winebremner & Son.

Post office address, Hanover, Pa.

Persons employed, four; capital employed in business, $4,000; amount paid annually for wages of employés, $1,500.

Frederick Helb.

Post office address, Rail Road, Pa.

Persons employed, six; capital employed in business, $12,000; amount paid annually for wages of employés, $2,000; amount paid annually for materials used in business, $17,250; value of annual product, $22,000. Wages per day paid employés: Beam-hands, $1 40; yard hands, $1 10; curriers, $1 50.

Clinton Keister.

Post office address, Yocumsville, Pa.

Persons employed, one; capital employed in business, $3,000; amount paid annually for wages of employés, $300; amount paid annually for materials used in business, $3,000; value of annual product, $5,000.

T. C. Smyser.

Post office address, York, Pa.

Persons employed, five; capital employed in business, $12,000; amount paid annually for wages of employés, $1,300; amount paid annually for materials used in business, $15,000; value of annual product, $16,500. Wages per day paid employés: Beam hands, $1 50; yard hands, $1 25; common laborers, $1 25.

Baugher, Frey & Kurtz

Post office address, York, Pa

Persons employed, thirteen; capital employed in business, $65,000; amount paid annually for wages of employés, $5,000; amount paid annually for materials used in business, $70,000; value of annual product, $78,000. Wages per day paid employés: Tanners, $3 00; beam hands, $1 50; yard hands, $1 33; rollers and spongers, $1 45 bark grinders, $1 33; common laborers, $1 25.

RECAPITULATION.—Tanneries—Employees, Capital, Wages, Materials, and Production.

NAME.	Post Office Address.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.	Value of annual production.
Adams County—						
J. E. Sleinour & Brother,	Arendtsville,	2	$1,500	. . .	$3,700	$5,000
John F. Miller,	Granite Hills,	1	1,000	. . .	960	1,400
Allegheny County—						
A. &. J. Groetziner,	Allegheny County,	35	150,000	$1,700	185,000	225,000
Bedford County—						
A. L. Hench,	Alum Bank,	8	. . .	14,000	32,000	
J. B. Hoyt & Co.,	Everett,	60	250,000	20,000	75,000	300,000
A. Haderman,	New Enterprise,	4	6,000	200	2,969	5,379
Chestnut Ridge Tannery,	Schellsburg,	5				
Berks County—						
Henry Kerper,	Reading,	13	25,000	6,000	28,000	40,000
S. B. Seidel & Sons,	Shoemakerville,	4	15,000	1,800	14,000	16,000
Blair County—						
William Smith,	Duncansville,	9	30,000	3,500	25,000	35,000
Daniel P. Ray,	Tyrone,	24	30,000	10,700	210,872	285,866
Bradford County—						
Underhill & Noble,	Athens,	30	100,000	12,700		
Gleason & Irwin,	Canton,	5	27,000	2,000	20,200	28,200
Adam Innes,	Granville Centre,	22	. . .	10,000	80,000	125,000
Daniel Innes,	Grover,	24	. . .	12,000	94,000	150,000
Bucks County—						
N. Wambold,	Sellersville,	4	4,000	700	3,000	2,000

A. D. Atherholt,	Tohickon,	3	7,000	696	4,500	5,000
Cambria County—						
W. H. Rosenthal,	Johnstown,	25	175,000	7,500	330,000	400,000
John E. Hare,	Summer Hill,	1	1,000	....	265	550
Cameron County—						
Hamilton, Martin & Co.,	Emporium,	40	200,000	18,000	100,000	176,000
B. F. Sherwood,	Sterling Run,	35	112,500	15,000	115,000	175,000
Carbon County—						
Hailer & Brother,	Lehigh Gap,	1	5,000	480	2,967	3,700
Bennett & Dunk,	Stroudsburg,	30	32,000	11,500	7,580	45,590
Centre County—						
Kurtz & Stover,	Aaronsburg,	2	1,800	....	1,500	2,000
Daniel Moser,	Boalsburg,	1	2,400	200	1,471	2,000
James L. Sommerville,	Bellefonte,	8	25,000	3,084	27,940	33,171
C. H. Shiffler,	Centre Hall,	2	500			
J. F. Montgomery & Brother,	Howard,	2	2,400	....	1,465	2,322
William Baird,	Milesburg,	3	2,000	700	1,500	3,000
Chester County—						
John Gilfillan,	Coatesville,	4	14,000	1,700	9,360	14,500
M. B. Chambers,	Marshallton,	6	15,000	4,000	20,282	27,849
Clarion County—						
S. D. Myers,	Callensburg,	3	1,500	250	1,000	1,800
Joseph Craig,	Limestone,	3	3,000	400	2,600	5,200
Clearfield County—						
R. Shirk,	Clearfield,	7	50,000	3,375	15,000	30,000
W. S. White & Son,	Osceola Mills,	60	140,000	30,000	250,000	350,000
Clinton County—						
Kistler Brothers,	Lock Haven,	50	125,000	18,000	197,260	249,600
Cumberland County—						
Waggoner & Shively,	Newville,	5	9,600	1,353	6,790	11,530
D. F. Stager,	Mechanicsburg,	3	6,500	200	4,500	6,000
Dauphin County—						
Joseph P. Stine,	Elizabethville,	1	1,700	....	720	980

RECAPITULATION—*Continued.*

NAME.	Post Office Address.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.	Value of annual production.
Dauphin County—Continued—						
Josiah Matter,	Enders,	2	$3,000	$300		
Samuel B. Ramberger,	Gratz,	1	2,000	300	$2,000	$3,000
Conrad Baur,	Halifax,	2	3,000	300	1,500	2,000
S. McIlhenny,	Linglestown,	2	5,000	300	2,800	4,200
Simon Wert,	Millersburg,	2	. . . .	. . . .	1,528	2,500
J. & C. Swab,	Pillow,	3	3,412	700	3,000	4,456
Elk County—						
W. H. Osterhout,	Ridgway,	90	650,000	36,000	500,000	650,000
Gratz & Horton,	Ridgway,	60	175,000	25,000	200,000	300,000
Erie County—						
C. E. Gunnison & Co.,	Erie,	14	40,000	6,000	26,000	45,000
S. Y. Rossiter,	Girard,	3	7,000	800	12,000	16,000
Forest County—						
G. Brooks & Co.,	Brookstown,	90	350,000	90,000	300,000	425,000
Franklin County—						
John H. Walker,	Fannetsburg,	5	7,000	700	6,500	11,000
Andrew Stiffle,	Greencastle,	2	. . . .	477	3,500	5,350
Solomon Sentman,	Roxbury,	2	2,000	525	4,690	5,280
M. D. Miller,	Upper Strasburg,	5	5,000	1,000	3,000	5,800
Fulton County—						
Rowland Austin,	Saluvia,	9	30,000	2,500	28,660	37,000

Greene County—						
M. M. Herrington,	Whitely,	2	1,500		850	2,000
Huntingdon County—						
Peter Kean,	Alexandria,	4	3,500	1,000	2,350	4,500
Austin Green,	Cassville,	2	795	150	645	1,465
Estate of Jeremiah Baum,	Mapleton,	12	60,000	7,885	55,900	67,200
Indiana County—						
P. Maher,	Blairsville,	2	5,000	800	4,000	10,000
Charles Kerler,	Blairsville,	3	8,000	1,500	9,000	15,000
Nicholas Peddicord,	Brush Valley,		2,000			3,500
John Reed,	Saltsburg,	1	1,000		1,000	1,700
Juniata County—						
Jacob Smith,	McAllistersville,	4	3,200	1,050	6,344	9,041
William G. Winey,	Richfield,	2		100		
Solomon Lieber,	Thompsontown,	1	1,050		550	1,000
Lancaster County—						
G. W. Sensenich,	Beartown,	3	5,000	900	3,063	4,600
A. H Myers & Co.,	Lancaster,	11	35,000	3,525	29,000	36,000
Amos Hollinger,	Lancaster,	18	40,000	7,028	38,821	48,959
J. W. Leidigh,	Paradise,	5	15,000	1,550	7,500	11,600
Lebanon County—						
William Beaver,	Annville,	7				
David Buck,	East Hanover,	3			3,100	5,500
E. & H. Loose,	Myerstown,	6	16,000	1,950	11,780	16,100
Lehigh County—						
Mosser & Grim,	Allentown,	17	40,000	8,720	54,274	96,807
Charles Burkhalter,	Dillingerville,	2	3,500	310	2,265	3,800
A. D. Kachline,	Egypt,	3	6,000	700	11,000	19,000
John E. Dubbs,	Locust Valley,	1	3,000	250		
James Singmaster,	Macungie,	4	10,000	1,400	7,900	12,000
Luzerne County—						
Rauch & Fauschert,	Falls Run City,	3	15,000	1,400	10,000	14,000
Beaver Run Tanning Company,	Ruggles,	9				40,600
A. B. McKinstry,	Schultzville,	50	175,000	20,000	158,000	240,000

RECAPITULATION—*Continued.*

NAME.	Post Office Address.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.	Value of annual production.
Lycoming County—						
Hardenbaugh, Hartwell & Co.,	English Centre,	40	$50,000	$17,000	$90,000	$200,000
Charles Kelchner,	Muncy,		1,500			1,200
E. R. Wilkison,	Newberry,	1	3,000	313	2,000	3,000
William Updegraff,	Williamsport,	3	5,000	416	3,809	5,700
McKean County—						
John Ford,	Port Allegheny,	2	5,000	300	4,000	7,000
Mifflin County—						
Spanogle & Pannebaker,	Lewistown,	22	110,000	8,000	68,000	90,000
A. T. Hilands & Co.,	Milroy,	2	6,662	900	6,000	7,000
Monroe County—						
Charles E. Kistler,	Scioto,	22	75,000	8,305	105,000	119,000
Montgomery County—						
John C. Morgan,	Fairview Village,	3	5,500	1,000	5,000	8,200
D. M. Casselberry,	Lower Providence,	3	5,000	900	7,850	9,300
William T. Miller,	Trappe,	2	2,500	300	1,000	1,800
Montour County—						
James Woodside,	Danville,	3	7,500	800	4,000	9,000
W. D. Weidenhamer,	Limestoneville,	2	3,000	300	2,000	3,000
Northampton County—						
Ephraim Loux,	Nazareth,	1	4,000	300	2,100	3,000

Perry County—						
James F. McNeal,	Blain,	6	. . . .	1,900	3,000	
George Hench,	Carlisle,	7	55,000	4,800	20,000	30,856
Joseph M. Hanley,	Duncannon,	2	4,000	550	3,000	4,000
John A. Bechtel,	Newport,	16	110,000	8,000	80,000	120,000
Joseph Howell & Co.,	Millerstown,	16	100,000	9,000	. . . .	120,000
Philadelphia—						
Keen & Coates,	Philadelphia,	24	300,000	11,800	87,400	140,000
Charles B. Williams & Sons,	Philadelphia,	15	50,000	8,000	38,000	50,000
Beeson & Crawford,	Philadelphia,	5	28,000	2,438	11,755	13,000
William F. Forepaugh & Brother,	Philadelphia,	12	45,373	9,000	30,000	50,000
William Hawkins & Co.,	Philadelphia,	10	20,000	9,000	9,000	21,000
Schuylkill County—						
D. Gensemer & Co.,	Pinegrove,	7	30,000	1,960	35,000	38,000
P. M. Barrow,	Ringtown,	3	5,000	1,600	12,986	17,349
Snyder County—						
Ulrich & Brother,	Selins Grove,	2	900	. . . .	800	1,500
Somerset County—						
H. L. Dean & Brother,	Addison,	2	3,000	200	800	1,200
Jonathan Miller,	Sipesville,	. . . . .	4,000	. . . .	2,150	4,000
Jeremiah Wing,	Wellersburg,	3	5,000	650	3,500	5,000
Susquehanna County—						
Jasper J. Stiles,	Gibson,	2	. . . .	. . . .	1,500	
George Fulmer,	Lanesboro',	30	60,000	9,600	135,000	143,000
C. S. Foster,	Montrose,	2	1,000	. . . .	2.100	3,200
A. Corbin & Co.,	New Milford,	15	45,000	6,000	59,400	70,000
Henry Jenkins & Son,	Thompson,	2	2,500	800	2,500	5,000
Tioga County—						
J. S. Harkness,	Cherry Flats,	3	1,200			
R. R. Kingsley & Son,	Mansfield,	4	15,000	1,500	10,000	25,000
R. Hammond & Co.,	Osceola,	25	50,000	9,000	93,000	100,000
H. Eberle & Brother,	Westfield,	4	6,000	1,350	7,000	10,000
Warren County—						
Horton, Crary & Co.,	Sheffield,	150	. . . .	65,000	375,000	505,000

RECAPITULATION—*Continued.*

NAME.	Post Office Address.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.	Value of annual production.
Wayne County—						
J. T. & W. Cromwell,	Hawley,	30	$40,000	$9,000	$65,000	$100,000
Hefferling. Brunig & Co.,	Honesdale,	13	30,000	4,800	60,000	80,000
Burton G. Morse,	Ledgedale,	58	250,000	26,000	131,000	150,000
Ira Nichols,	Pleasant Mount,	12	35,000	4,500	45,000	55,000
Westmoreland County—						
B. E. Hebrauk,	Adamsburg,	3	2,500	700	2,500	4,000
James Douglass & Son,	Latrobe,	3	4,000	800	4,000	6,000
Jacob Lobingier,	Laurelville,	2	1,050	....	....	1,600
W. L. Chambers,	Pleasant Unity,	2	2,500	750	1,200	2,400
Wyoming County—						
Smith Brothers,	Factoryville,	6	8,000	800	18,000	19,500
Childs & Bloomer,	Nicholson,	20	20,000	7,500	100,000	105,000
York County—						
Joseph Deardorff & Co.,	Dillsburg,	3	4,000	....	4,000	
H. Winebrenner & Son,	Hanover,	4	4,000	1,500		
Frederick Helb,	Railroad,	6	12,000	2,000	17,250	22,000
Clinton Keister,	Yocumsville,	1	3,000	300	3,000	5,000
T. C. Smyser,	York,	5	12,000	1,300	15,000	16,500
Baugher, Frey & Kurtz,	York,	13	65,000	5,000	70,000	78,000
Totals,		1,666	$5,022,042	$702,810	$5,248,521	$7,534,800

PAPER MILLS.

The following is a complete list of the paper mills of Pennsylvania, giving the kind of paper manufactured and the capacity of each mill. The reports received show that skilled workmen receive from $2 50 to $3 00 per day; laborers, $1 00 to $1 50; and females, 56 to 87½ cents. We are indebted to W. D. Blackburn, Esq., of Mechanicsburg, Pa., for efficient aid in enabling us to ascertain the location of the different mills.

ADAMS COUNTY.

Conewago Paper Company.

E. W. Stahle, President. Water and steam power. Manufacture printing paper from straw. Three engines. Twenty-six thousand pounds per day. Post office, Mummasburgh.

ALLEGHENY COUNTY.

Valley Paper Mill, (Limited,) Hulton.

Built 1875. S. W. Parker, chairman; A. C. Bakewell, treasurer; J. W. Friend, secretary. Seven 500-℔ and one Jordan engines; one 84-inch cylinder, steam. News. Three tons, twenty-four hours. Post office, Pittsburgh.

Elkhorn Mill.

Godfrey & Clark. Six 600 ℔ and one Gould engines; one 64 and 72-inch double cylinder. Steam. Manilla. Three tons, twenty-four hours. Post office, Pittsburgh.

BEAVER COUNTY.

Brighton Mills.

Metzgar & Co. One 500-℔ and three 350-℔ engines; one 44-inch and one 56-inch cylinder. Water and steam. Manilla, roofing, and hardware. Six thousand pounds, twenty-four hours.

BERKS COUNTY.

Reading Paper Company, (two mills,) Manatawny.

Oley Mill.—Two 300-℔ and one 500-℔ engines; one 44-inch Fourdrinier machine. Water and steam. News and book. Two thousand pounds, twenty-four hours. Post office, Reading.

Also, Packerack Mill.—Six 500-℔ engines; one 72-inch Fourdrinier. Steam. Book and news. Five thousand five hundred pounds, twenty-four hours. Post office, Reading.

Reading Mill.

W. B. Griesemer & Co., (W. B. Griesemer, H. and Jacob Bushong, J. V. Craig.) Three 300-℔ and three 300-℔ engines; one 72-inch Fourdrinier. Steam. Book. Four thousand pounds, twenty-four hours. Post office, Reading.

Keystone Mill.

George W. Bushong. Two 350-℔, and one 500-℔, and one Kingsland engines; one 62-inch Fourdrinier. Water and steam. Manilla. Three thousand pounds, twenty-four hours. Post office, Reading.

C. R. Leinbach, Sinking Springs.

Two 250-℔ engines; one 36-inch cylinder. Water. News. Seven hundred and fifty pounds, twenty-four hours. Post office, Reading.

Henry Z. Van Reed.

Two 400-℔ engines; one 42-inch Fourdrinier. Steam, book, and news. Fifteen hundred pounds, twenty-four hours. Post office, Reading.

BLAIR COUNTY.

Roaring Spring Mill.

Morrison, Bare & Cass, (John T. Morrison, D. M. Bare, Joseph K. ass, and Jacob Eli.) Three 300-℔ and two 800-℔ engines; one 72-inch Fourdrinier. Water and steam News. Two and one half tons, twenty-four hours. Post office, Pittsburgh.

BUCKS COUNTY.

Connery & Harrity. (Lessees of A. J. Beaumont.)

Three 24x24 engines; one 44-inch cylinder. Water. Manilla. Two thousand pounds, twenty-four hours. Post office, New Hope.

CENTRE COUNTY.

Bellefonte Paper Mill.

Batcheler & Fisher (J. F. Batcheler, Jno. N. Fisher). Two 36x36 engines; one 62-inch cylinder. Water. Straw wrapping. Four thousand pounds, twenty-four hours. Idle. Post office, Bellefonte.

CHESTER COUNTY.

Auburn Mill.

Wm. H. Doud. Two 150-℔ engines; one 40-inch cylinder. Water and steam. Manilla. Seven hundred and fifty pounds, twenty-four hours. Post office, Chesterville.

Franklin Mill.

Wilson Lysle, (succeeds Lysle & Bros.) One 400-℔ engine; one 36-inch cylinder. Water. News. Six hundred pounds, twenty-four hours. Post office, Chesterville.

Rudolph & Co.

Two 200-℔ engines; one 40-inch cylinder. Water and steam. Tissue and manilla. Six hundred pounds, twenty-four hours. Post office, Chesterville.

Mineral Spring Mill.

James Eachers. Two 500-℔ engines; one 56-inch cylinder. Steam and water. Binders' board. Three thousand pounds, twenty-four hours. Post office, Coatesville.

Willow Glen Mill.

Joseph Palmer. Two 350-℔ engines; one 38-inch cylinder. Water. Binders' board. One thousand five hundred pounds, twenty-four hours. Post office, Doe Run.

Samuel B. Dorlan.

Three 300-℔ engines; one 36-inch cylinder. Water. Hanging. One thousand two hundred pounds, twenty-four hours. Post Office, Dorlan's Mills.

Eagle Paper Mills.

James Guie & Son. Four 700-℔ engines; one 62-inch double cylinder. Water. Manilla and news. Four tons, twenty-four hours. Post office, Downingtown.

L. B. Bailey.

Binders' board. One thousand pounds, twenty-four hours. Post office, Ercildoun.

Beaver Dam Mill, Ercildoun.

C. S. Garrett, Three 400-℔ engines; one 62-inch cylinder. Water and steam Roofing. Two tons, twelve hours. Post office, Philadelphia.

Rokeby Mill.

Joshua B. Broomell, Agent. Three 600-℔ and one 800-℔ engines; one 40-inch cylinder and two wet machines. Water and steam. Hardware and wrapping. Six thousand pounds, twenty-four hours. Post office, Ercildoun.

Jabez Wilson.

One 300-℔ and one 400-℔ engines; one 40-inch cylinder. Water. Binders' board. Two thousand pounds, twenty-four hours. Post office, Ercildoun.

Buck Run Mill.

D. S. Young. Two 400-℔ one 52-inch cylinder. Water. Binders' board. Two thousand pounds, twenty-four hours. Post office, Ercildoun.

Elk Grove Mill.

J. C. McDonald. One 300-℔ engine; one 36-inch cylinder. Water and steam. Straw board. One thousand pounds, twenty-four hours. Post office, Hickory Hill.

Marshall's Mill.

Thomas S. Marshall. Three 250-℔ engines; one 56-inch cylinder. Steam and water. Manilla. Eight hundred pounds, twenty-four hours. Post office, Kennett's Square.

Willow Brook Mill.

John Wright. Two 400-℔ engines; one 48-inch cylinder. Water. Binders' board. One and one half tons, twenty-four hours. Post office, Kennett's Square.

Lona Paper Co.

Three 500-℔ engines; one 64-inch cylinder. Water. Binders' board. Two and one half tons, twenty-four hours. Post office, Kimberton.

J. F. Sheeder.

One 350-℔ and two 400-℔ engines; one 33-inch and one 62-inch cylinder. Water and steam. Binders' and straw board. Three tons, twenty-four hours. Post office, Kimberton.

Spring Lawn Mill, Lewisville.

Megargee Bros. Three 400-℔ and one 200-℔ engines; one 64-inch Fourdrinier. Steam and water. Book. Two thousand pounds, twenty-four hours. Post office, Philadelphia.

Chester Mill, Madena.

Jessup & Moore. Two 300-℔, two 225-℔, and one Gould engine; one 66-inch Fourdrienier. Water and steam. Book. Six thousand pounds, twenty-four hours. Post office, Philadelphia. Also, Augustine Mill and Rockland Mill, at Wilmington, Delaware.

Made's Mill.

Wm. and Alexander Made. Two 240-℔ and two 290-℔ engines; one 72-inch Fourdrinier. Water and steam. Book. Two thousand pounds, twenty-four hours. Post office, Madena.

Mt. Vernon Mills.

W. H. McHenry. Two mills. Three 400-℔ engines; one 40-inch wet machine. Water. Binders' and straw board. Four thousand pounds, twenty-four hours. Post office, Mount Vernon.

Pleasant Garden Mill, New London.

Rudolph & Arthur. Three 36-inch engines; one 62-inch double cylinder. Water and steam. Manilla and wrapping. Three thousand pounds, twenty-four hours. Post office, Philadelphia.

Northeast Mill.

Harvey Graves. One 500-℔ and one 300-℔ engines; one 48-inch cylinder. Water. Straw board. Fifteen hundred pounds, twenty-four hours. Post office, Nottingham.

Valley Mill, Oxford.

Charles Wells & Co. (Charles Wells and James B. Ramsey.) Two 350-℔ and one 200-℔ engines; one 54-inch double cylinder. Water and steam. Manilla and wrapping. Twenty-five hundred pounds, twenty-four hours. Post office, Philadelphia.

Also, Cecil Mill, at Rising Sun, Cecil county, Maryland.

E. Bicking, Jr.

One engine; one 36-inch cylinder. Binders' board. One ton, twenty-four hours. Post office, Penningtonville.

John F. Bicking, (formerly D. & J. C. Bicking.)

Two 300-℔ engines; one 42-inch cylinder. Water and steam. Manilla. One thousand pounds, twenty-four hours. Post office, Russellville.

Collamer Mill.

R. Orme & Son, (formerly Warrick Coates.) One 250-℔ engine; one 36-inch cylinder. Water. Straw board. One and one half tons, twenty-four hours. Post office, Russellville.

B. F. Williams.

One 350-℔ engine; one 40-inch wet machine. Water. Binders' board. Two thousand pounds, twenty-four hours. Post office, Schuylkill.

American Wood Paper Company.

E. Embree & Son, agents, 18 Vesey street, New York. Five 300-℔, one 650 ℔, and three Kingsland engines; one 62-inch cylinder, and one 62-inch and one 66-inch Fourdrinier. Steam. Envelope, card, writing, and blotting. Five tons, twenty-four hours. Post office, Spring City.

Valley Forge Paper Mill.

M. C. Pennypacker, (succeeds J. Knauer.) Two 300-℔ and one Kingsland engines; one 36-inch cylinder. Water. Envelope. Fifteen hundred pounds, twenty-four hours. Post office, Valley Forge.

Hilldale Mill.

Bowers Brothers, (John L., Wm. T., Robert E., and Joseph W. Bowers.) One 400-℔ and two 300-℔ engines; one 62-inch double cylinder. Steam and water. Manilla. One ton, twelve hours. Post office, West Chester.

Catawissa Paper Company.

Three 500-℔ and two 150-℔ engines; one 36-inch cylinder and one 72-inch Fourdrinier. Water and steam. News and wrapping. Five thousand pounds, twenty-four hours. Post office, Catawissa.

Thomas French & Son.

Two 500-℔ engines; one 36-inch double cylinder. Water. Manilla. Fifteen hundred pounds, twenty-four hours. Post office, Light Street.

CRAWFORD COUNTY.

H. H. Fuller.

Two 609-℔ engines; one 62-inch cylinder. Water. Wrapping. One and a half tons, twenty-four hours. Post office, Meadville.

CUMBERLAND COUNTY.

Trindle Spring Paper Company.

Robert Carman, treasurer and superintendent. Trindle Spring paper mill. Four 500-℔ engines; one 62-inch Fourdrinier. Steam. Straw board. Six tons, twenty-four hours. (Idle.) Post office, Mechanicsburg.

Middlesex Mill.

Abraham Witmer, (succeeds Stouffer & Miller.) One 400-℔ and one 300-℔ engine; one 40-inch cylinder. Water. Straw board. Nine tons a week. Post office, Middlesex.

Mount Holly Paper Company.

Mount Holly paper mills. Two mills. Robert Given, president; C. H. Mullin, treasurer. Upper mill, four 450-℔ engines; one 62-inch Fourdrinier. Lower mill, two 450-℔ and three 300-℔ engines; one 66-inch Fourdrinier. Water and steam. Writing. Three thousand pounds, each mill, twenty-four hours. Post office, Mount Holly Springs.

W. A. & A. F. Mullin.

Five 350-℔ engines; one 62-inch Fourdrinier. Water and steam. Book and news. Three thousand five hundred pounds, twenty-four hours. Post office, Mount Holly Springs.

Big Spring Paper Mills.

P. A. Ahl & Bro. (P. A. Ahl and Daniel V. Ahl.) Two engines; one 48-inch cylinder. Water. Straw board. One ton, twenty-four hours. Post office, Newville.

Papyrus Mills.

Shryock Brothers. (Samuel S. and John K. Shryock.) One 500-℔ and one 400-℔ engine; one 44-inch cylinder. Water and steam. Straw and binders' board. Four thousand pounds, twenty-four hours. Post-office, Shippensburg.

DELAWARE COUNTY.

Willistown Paper Mill, Cheyney.

Harvey S. Garrett. (Garrett & Buchanan, agents, Philadelphia.) Two 250-℔ and one 400-℔ engines; one 62-inch double cylinder. Water. Hanging and curtain. Three thousand pounds, twenty-four hours. Post office, Philadelphia.

E. T. Garrett, Darby.

Garrett & Buchanan, agents, Philadelphia. One 500-℔ and three 300-℔ engines; one 54 inch cylinder. Water and steam. Tissue, manilla. One thousand pounds, twenty-four hours. Post office, Philadelphia.

Glen Mills, (two mills.)

J. M. Willcox & Sons, (Mark and James M. Willcox.) Four 300-℔, four 250-℔, and one 600-℔ engines; two 72-inch Fourdriniers. Water and steam. Book and collar. The largest of the two mills is run as two separate and distinct departments—a paper mill and a branch of the United States Treasury Department, where all the paper for the Government, which is used for greenbacks, fractional currency, revenue stamps, notes, bonds, checks, etc., is manufactured. Six thousand pounds, twenty-four hours. Post office, Glen Mills.

Union Paper Mill, Newtown.

C. S. Garrett. Three 300-℔ engines; one 54-inch Fourdrinier. Water and steam. Card and hanging. Three thousand pounds, twenty-four hours. Post office, Philadelphia.

Howard J. Lewis.

Four 500-℔ engines; one 62-inch Fourdrinier. Water and steam. News. Three thousand pounds, twenty-four hours. Post office, Oakdale.

Keystone Paper Mill, Upper Darby,

C. S. Garrett. One 800-℔, two 300-℔, and one Kingsland engines; one 58-inch Fourdrinier. Water and steam. Book and card. Four thousand pounds, twenty-four hours. Post office, Philadelphia.

ERIE COUNTY.

Erie Paper Mill, (late Noble & Locke,)

Seven heating and one Jordan engines; one 84-inch double cylinder. Water and steam. Manilla. Two tons, twenty-four hours. (Idle; part of machinery sold.) Post office, Erie.

Franklin Paper Mills.

Cochran & Young. Three 350-℔ engines; one 64-inch cylinder. Water and steam. Print and book. One ton, twenty-four hours. Post office, North-East.

FRANKLIN COUNTY.

Franklin Mill.

J. Heyser & Son, (Jacob and W. L. Heyser.) One 350-℔, one 450-℔, and one 750-℔ engines; two 44-inch cylinders. Water and steam. Straw board. Three tons, twenty-four hours. Post office, Chambersburg.

Hollywell Paper Mill.

William Heyser. Two 450-℔ and one 300-℔ engines; one 62-inch Fourdrinier. Water. News and book. Two thousand five hundred pounds, twenty-four hours. Post office, Chambersburg.

Strickler, Lehman & Co., (succeed Stouffer, Strickler & Co.)

Two engines and one wet machine. Straw board. Two tons, twenty-four hours. Post office, Chambersburg.

INDIANA COUNTY.

Hawkhurst & Ray.

One 350-℔ engine; one 36-inch wet machine. Steam. Straw board. One and one fourth tons, twenty-four hours. Post office, Indiana.

Indiana Straw Board Mill.

Sutton & McCartney, (John Sutton, Samuel McCartney.) One 500-℔ and two 300-℔ engines; one 64-inch cylinder. Steam. Straw board. Three tons, twenty-four hours. Post office, Indiana.

LANCASTER COUNTY.

Slackwater Paper Mills.

Estate of Emanuel Shober. Eleven 300-℔ engines; one 62-inch and one 66-inch Fourdrinier. Steam and water. Book, two tons, twenty-four hours. Post office, Lancaster.

The Printers' Paper Mill.

(J. R. Bitner, J. I. Hartman.) One 650-℔ and two 450-℔ engines; one 72-inch Fourdrinier. Water and steam. Book and news, two thousand five hundred pounds, twenty-four hours. Post office, Lancaster.

LAWRENCE COUNTY.

New Castle Mill.

Job Harvey & Co., (Job Harvey, Alfred Mecarns.) Three 500-℔ engines; one 66-inch double cylinder. Water and steam. Manilla, two thousand pounds, twenty-four hours. Post office, New Castle.

LEBANON COUNTY.

Ross, Funck & Beaver, (succeed Lebanon Paper Company.)

George Ross, Josiah Funck, D. H. Beaver. Four 600-℔ engines, one 62-inch Fourdrinier. Steam. Straw board, six tons, twenty-four hours. Post office, Lebanon.

LUZERNE COUNTY.

Wyoming Valley Paper Mills.

J. C. F. & G. B. Rommel. Two 250-℔ and one 500-℔ engines; one 62-inch double cylinder. Steam. News, two thousand five hundred pounds, twenty-four hours. Post office, Pittston.

Huntington Mill.

Koons Brothers. (F. A. B. Koons, M. L. Koons, heirs J. R. Koons.) Two 300-℔ engines; one 48-inch cylinder. Water. Straw wrapping, three thousand pounds, twenty-four hours. Post office, Shickshinny.

LYCOMING COUNTY.

Fairfield Paper Mill.

William Starr & Lloyd. (William Starr, estate of Charles Lloyd.) Two 300-℔ engines; one 37-inch and one 62-inch cylinder. Water. Straw board, two thousand five hundred pounds, twenty-four hours. Post office, Montoursville.

MONTGOMERY

Hagy Paper Mill.

L. C. Cullen. Two 300-℔ engines; one 36-inch cylinder. Steam and water. Roofing. Four thousand pounds, twenty-four hours. Post office, Lower Merion.

Estate of R. J. Dodd.

Two 400-℔ engines; one 36-inch cylinder. Water and steam. Colored. Two thousand pounds, twenty-four hours. Post office, Lower Merion.

Cressman & Shader.

Wrapping, twelve hundred pounds, twenty-four hours. Post office, Norristown.

James Shannon.

One 48-inch wet machine. Straw board. One ton, twenty-four hours. Post office, Norristown.

Douglass Paper Mill.

Joseph K. Leidy. Two engines; one 40-inch cylinder. Water. Wrapping and news. One thousand pounds, twenty-four hours. Post office, Pennsburgh.

NORTHAMPTON COUNTY.

Syd. L. Uhler.

Two 500-℔ engines; one 46-inch Fourdrinier. Steam. Straw board. Three tons, twenty-four hours. Post office, Uhlersville.

PHILADELPHIA COUNTY.

Riverside Mill, Andora.

W. C. Hamilton & Son, (Wm. C. and Chas. L. Hamilton.) Five engines and one Gould engine; one 62-inch and one 64-inch Fourdrinier. Steam. Book and envelope. Six thousand pounds, twelve hours. Post office, Philadelphia.

Riverside Mill.

Baeder, Adamson & Co. Eight 300-℔ engines; one cylinder. Steam. Manilla, for own use in making sand paper. Post office, Philadelphia.

Philadelphia Inquirer Paper Mill.

Wm. W. Harding. Two 600-℔, six 400-℔, two Jordan, and one Gould engines; one 62-inch and one 76-inch Fourdrinier. Water and steam. News and book. Five tons, twenty-four hours. Post office, Philadelphia.

John Lang.

Three 350-℔ engines; one 44-inch cylinder. Steam. Roofing. Three tons, twenty-four hours. Post office, Philadelphia.

Wissahickon Mills.

Charles Megarge & Co. Two mills. Eleven 375-℔ engines; two 62-inch Fourdriniers. Water and steam. Book. Eight thousand pounds, twenty-four hours. Post office, Philadelphia.

Hanwell Mills.

Charles Megarge. Five 400-℔ engines; one 62-inch Fourdrinier. Water and steam. Book. Three thousand five hundred pounds, twenty-four hours. Post office, Philadelphia.

Manayunk Wood Pulp Works.

American Wood Paper Company and Jessup & Moore. Ten upright boilers; four 1,000-℔ engines; one cylinder, and two wet machines. Water and steam. Wood pulp. Ffteen tons, twenty-four hours. Post office, Philadelphia.

Flat Rock Mills.

Martin Nixon & Co., (M. and W. H. Nixon.) Ten 625-℔, six 400-℔, and three Jordan engines; four Fourdriniers, 62-inch, 72-inch, 72-inch, and 86-inch. Water and steam. News and book. Ten tons, twenty-four hours. Post office, Manayunk.

Nixon & Stokes.

Four 600-℔ engines; one 72-inch Fourdrinier. Water and steam. Manilla. Two tons, twenty-four hours. Post office, Philadelphia.

Ashland Paper Mill.

S. A. Rudolph & Son, (S. A. and Aug. S. Rudolph.) Eight 400-℔ engines; one 76-inch and one 62-inch Fourdrinier, and two wet machines. Water and steam. News. Four tons, twenty-four hours, Post office, Philadelphia.

Perseverance Roofing Paper Mill.

Joseph Stelwagon & Sons, (Joseph, Wm. H., and Robert P. Stelwagon.) Two 250-℔ and one 200-℔ engines; one 40-inch cylinder. Water and steam. Roofing. Five thousand pounds, twenty-four hours. Post office, Philadelphia.

E. C. & P. H. Warren.

Five 300-℔ engines; one 72-inch Fourdrinier. Steam. Book. One and a half tons, Twenty-four hours. Post office, Philadelphia.

WASHINGTON COUNTY.

Union Paper Mills.

R. S. D. Hartrick, S. D. Culbertson. Five 500-℔ engines; three 62-inch cylinder vats and two 42-inch wet machines. Water and steam. Straw board. Five tons, twenty-four hours. Post office, Monongahela city.

WESTMORELAND COUNTY.

Loyalhanna Mill, Latrobe.

James Peters, (succeeds Metzgar & Peters.) Two 366-℔ engines; one 48-inch cylinder. Steam. Roofing and wrapping. Three thousand pounds, twenty-four hours. Post office, Pittsburgh.

Smith's Mill.

J. H. Smith & Co. Two 400-℔ engines; one 33-inch cylinder. Steam. Straw wrapping. Two thousand five hundred pounds, twenty-four hours. Post office, Smithton.

West Newton Mills, (two mills.)

C. P. Markle & Sons. Built, 1858. Burned, August 11, 1875; loss, $40,000. Immediately rebuilt. Pulp mills totally destroyed by fire July, 1877, and were entirely reconstructed and in full operation in eighty days afterwards. Two 600-℔, one 500-℔, and five 350-℔ engines; two 86-inch Fourdriniers. Steam. Straw print and pulp. Five tons, twenty-four hours. In manufacture of paper, one hundred and twenty cords of wood, one hundred and twenty-five tons of straw, thirty thousand pounds of chloride of lime, and eighty thousand pounds of potash are used per month. Post office, West Newton and Pittsburgh.

Mill Grove Mill.

C. P. Markle & Sons. Two 700-℔ engines; one 62-inch double cylinder. Steam and water. Wrapping. Two tons, twenty-four hours. Post office, West Newton and Pittsburgh.

YORK COUNTY.

Spring Grove Mill.

P. H. Gladfelter. Three 400-℔ and two 1,000-℔ engines; one 82-inch Fourdrinier. Water and steam. Straw print. Seven thousand five hundred pounds, twenty-four hours. Post office, Spring Forge.

Codorus Mill, York.

A. D. Jessup. Three 300-℔ engines; one 48-inch Fourdrinier. Steam and water. Writing. One thousand five hundred pounds, twenty-four hours. Post office, Philadelphia.

Mrs. M. S. Wheelwright, York.

Three 300-℔ engines; one 42-inch Fourdrinier. Water and steam. News. One thousand eight hundred pounds, twenty-four hours. (Idle.) Post office, Baltimore, Md.

From the foregoing we deduct the following facts: There are in the State ninety-four firms and one hundred and two paper mills—four of which are idle. Chester county alone has *thirty-two* mills, almost one third of the whole number in the State. These mills are located in twenty-six counties, and are distributed as follows: Adams, 1; Allegheny, 2; Beaver, 1; Berks, 6; Blair, 1; Bucks, 1; Centre, 1; Chester, 32; Columbia, 2; Crawford, 1; Cumberland, 7; Delaware, 7; Erie, 2; Franklin, 3; Indiana, 2; Lancaster, 2; Lawrence, 1; Lebanon, 1; Luzerne, 2; Lycoming, 1; Montgomery, 5; Northampton, 1; Philadelphia, 12; Washington, 1; Westmoreland, 4; York, 3; total, 102.

THE IRON TRADE.

BLAST FURNACES AND ROLLING MILLS.

Pennsylvania has two hundred and ninety-seven blast furnaces, with an annual capacity of two million two hundred and sixty-four thousand nine hundred tons. Owing to the financial condition of the country, the greater part of them are not in operation. Of rolling mills, the State has one hundred and thirty-seven, with an annual capacity of one million six hundred and twenty-four thousand five hundred tons. The returns herewith comprise near all the establishments in operation during the year. The Cambria Iron Company, the leading establishment in the State, failed to report. Scores returned the blanks marked "out of blast," or "not in operation." The iron-workers generally indulge in complaint. The manufacturers of bar iron say that the market was much depressed, and sales to supply immediate wants could only be made, and these in very small lots. The proprietors of furnaces in operation, in a great many cases, claim that they have not realized sufficient during the year to pay the interest of their investments. A number give their reasons, in connection with their reports, for the cause of this state of affairs.

BLAST FURNACES.

Allentown Iron Company—Samuel Lewis, Agent.

Allentown, Lehigh county.

Persons employed, 328; capital employed in business, $1,000,000; amount paid for wages of employés, $44,797 92; amount paid for materials used in business, $444,665 90; product, 25,780 tons; value of product, $438,000.

Blair Iron and Coal Company, Bennington Furnace.

Bennington, Blair county.

Persons employed, 72 men and boys; amount paid for wages of employés, $23,724 52; product, 4,453 tons Bessemer; value of product, $106,872.

Blair Iron and Coal Company, Frankstown Furnace.

Frankstown, Blair county.

Persons employed, 49 men and boys; amount paid for wages of employés, $18,844 48; product, 194½ tons Bessemer, 317 tons spiegle, 4,586½ tons mill; value of product, $89,456.

Blair Iron and Coal Company, Hollidaysburg Furnace, No. 1.

Hollidaysburg, Blair county.

Persons employed, 67 men and boys; amount paid for wages of employés, $22,286 77; product, 1,065½ tons mill, 7,518 tons Bessemer; value of product, $197,472.

Blair Iron and Coal Company, Hollidaysburg Furnace, No. 2.

Hollidaysburg, Blair county.

Persons employed, 51 men and boys, amount paid for wages of employés, $18,998 88; product, 5,974½ tons mill; value of product, $95,592.

Bloomsburg Iron Company.

Bloomburg, Columbia county.

Persons employed, 140 men, 8 boys; product, 5,857 gross tons pig iron; value of product, $117,140.

Two furnaces; only one in blast since November, 1873. Business very dull, and carried on at a heavy loss.

Brown & Mosgrove.

Kittanning, Armstrong county.

Persons employed, 120; capital employed in business, $66,000; amount paid for wages of employés, coal, and ore, $80,000; made 2,927½ tons pig metal, worth $64,400.

Remarks.—The store cleared in the year $22,000, so that without these profits in connection with the iron business, the latter would have been a failure.

Chickies Iron Company.

Chickies, Lancaster county.

Persons employed, 135; capital stock of company, $150,000; amount paid for wages of employés and materials used in businee, $229,678 09; product, 12,056 gross tons; value of product, $255,701 28.

Clymer Iron Company.

Temple, Berks county.

Persons employed, 45; capital employed in business, $30,000; amount paid for wages of employés, $15,000; amount paid for materials used in business, $10,000; product, 1,000 tons cold blast charcoal iron, worth $31,000.

Remarks.—The above is an average, as near as may be, of the working of an old-fashioned cold blast charcoal furnace. It is called the Oley Furnace, and is in Oley township, Berks county. The stack now in blast was built in the year 1772, and has been in use, with the exception of about ten years, about the year 1852, ever since it was built. The number of men employed at a charcoal furnace varies very much, according to the season of the year. During the summer season the colliers, wood haulers, &c., make the force pretty large; in the winter these are not employed. Charcoal iron is at present in very limited demand, owing to the fact that about the only use now made of it is for railroad wheels, and the business of railroads is anything but prosperous.

Crowther Iron Company, Clara Furnace.

New Castle, Lawrence county.

Persons employed, 37; capital employed in business, $200,000; amount paid for wages of employés, $25,000.

REMARKS.—In blast only seven months. Made 9,000 tons Bessemer metal.

Donaghmore Furnace—R. W. Coleman's Heirs.

Lebanon, Lebanon county.

Persons employed, 28; product, 4,500 tons pig iron.

REMARKS.—Anthracite furnace: Boshes, 14 feet; height of stack, 41 feet. Furnace in blast ten months, but gave men work all year.

Dunbar Furnace Company.

Dunbar, Fayette county.

Persons employed, 289; capital employed in business, $200,000; amount paid for wages of employés, $123,847; amount paid for materials used in business, $17,218 90; product, 3,263 tons; value of product, $60,057 84.

REMARKS.—The Dunbar Furnace Company was re-organized June 1, 1876, and during that year re-built the furnace, the improvements costing $173,000. The present furnace is 77 feet high and 20 feet bosh, and was blown in February 23, 1877. The ores used are the native carbonates, with mixture of mill cinder, lake, and Cornwall ores.

East Penn Iron Company.

Lyons Station, Berks county.

Persons employed, 34; amount paid for wages of employés, $15,260 44; product, 5,816 tons; value of product, $90,000.

REMARKS.—The furnaces of the East Penn Iron Company were sold by the sheriff of Berks county to the Philadelphia and Reading Coal and Iron Company, June 19, 1877.

Glamorgan Iron Company.

Lewistown, Mifflin county.

Persons employed, 30; amount paid for wages of employés, $3,000; product, 140 tons; value of product, $2,800.

Grove Brothers.

Danville, Montour county.

Persons employed, 149; capital employed in business, $1,057,358 90; amount paid for wages of employés, $79,139 76; amount paid for materials used in business, $120,540 46; product, 6,251 tons; value of product, $137,543 16.

Grubb, C. B. & Son.

Columbia, Lancaster county.

Persons employed, 75, (35 at furnace and 40 at ore banks;) capital employed in business, $100,000; value of product, $90,117.

Grubb, C. B. & Son.

Columbia, Lancaster county. Furnace in West Hempfield township, Lancaster county.

Persons employed, 40; capital employed in business, $50,000; value of annual product, $81,871.

Kaufman, Wm. M. & Co.

Sheridan, Lebanon county.

Persons employed, 40; capital employed in business, $521,117 75; amount paid for wages of employés, $20,081 24; amount paid for materials used in business, $126,835 22; product, 8,439 tons; value of product, $163,189 84.

Kemble Coal and Iron Company.

Riddlesburg, Bedford county.

Persons employed, 200 to 235; capital employed in business, $500,000; amount paid for wages of employés, $103,000; amount paid for materials used in business, $30,000; product, 10,124 tons pig iron.

REMARKS.—The figures here given are about the average when one furnace is running. Furnace No. 2 was stopped April 22, 1877, and Furnace No. 1 is being repaired and will be put in blast in a short time. The Kemble Coal and Iron Company commenced operations here in 1868. Furnace No. 1 was put in blast July 3, 1869, but has not been running since October 20, 1873. Furnace No. 2 was put in blast March 4, 1871, and stopped April 22, 1877. The principal ore mines are at Tatesville and Wolfsburg, in this county; the coal is mined about one half mile from furnace; the limestone is obtained at Cove Station, Huntingdon county. Pig iron is the only production. Dimensions of furnaces, each 65x14. There are in connection with furnaces 88 coke ovens, coal washer, &c.

Kimberly, Carnes & Co.—Keel Ridge Furnace.

Sharon, Mercer county.

Persons employed, 35; amount paid for wages of employés, $14,600; product, 5,596 tons metal.

Lehigh Iron Company.

Allentown, Lehigh county.

Persons employed, 200; capital employed in business, $250,000; amount paid for wages of employés, $61,500; amount paid for materials used in business, $180,000; product, 12,000 tons pig iron. .

REMARKS.—Manufacture foundry and forge pig iron, noted for its softness, fuidity, and strength.

Lehigh Valley Iron Company.

Coplay, Lehigh county.

Persons employed, 75; capital employed in business, $600,000; amount paid for wages of employés, $30,000, when two stacks are in blast; amount paid for materials used in business, $250,000; product, 18,000 tons.

Logan Iron and Steel Company—Greenwood Furnace.

Huntingdon, Huntingdon county.

Persons employed, 170; amount paid for wages of employés, $30,000; amount paid for materials used in business, $26,000; product, 1,616 tons charcoal pig iron; value of product, $56,000.

Lowry, Eichelberger & Sons, Barre Furnace.

Barre Forge, Huntingdon county.

Persons employed, 100; amount paid for wages employés, $19,400; amount paid for materials used in business, $9,600; product, 1,100 tons metal; value of product, $33,000.

REMARKS.—Barre furnace is situated on the Little Juniata river and Pennsylvania railroad. Stack, 30 feet high; 8 feet bosh; 2 tweers. Blast made by water power. Make from thirty to forty tons of charcoal pig iron a week, out of the celebrated Dorsy ore.

Matilda Furnace.

Mount Union, Huntingdon county.

Persons employed, 50; amount paid for wages of employés, $18,250; amount paid for materials used in business, $30,000; product, 3,000 tons pig iron; value of product, $51,000.

REMARKS.—This furnace was blown out November 6, 1876, because iron could not be made at a profit.

Meily, J. & R., Lebanon Valley Furnace.

Lebanon, Lebanon county.

Persons employed, 25; amount paid for wages of employés, $12,500; amount paid for materials used in business, $80,000; product, 5,000 tons pig iron; value of product, $100,000.

Monocacy Furnace Company.

Monocacy Station, Berks county.

Persons employed, 30 to 35; amount paid for wages of employés, $17,000; amount paid for materials used in business, $155,000; product, 8,427 gross tons pig iron.

REMARKS.—Monocacy furnace is a stone stack, 14 feet bosh and 50 feet high. Product during the year, principally foundry iron, five per centum only being No. 3, or gray forge iron.

Montgomery Iron Company.

Port Kennedy, Montgomery county.

Persons employed, 32, when in blast; capital employed in business, $150,000.

REMARKS.—One blast furnace; can produce 8,000 tons per year.

Neal, W., & Sons.

Bloomsburg, Columbia county.

Persons employed, 190; capital employed in business, $150,000; amount paid for wages of employés, $60,000; amount paid for materials used in business, $65,000; product, 7,721½ gross tons; value of product, $135,131 25.

Remarks.—For the past three years, or more, since the panic of 1873, the iron business in this section has been, and still is, in a very depressed condition. Sales slow and prices realized affording no margin for profit. For the last two years we have not received interest for the money invested, and the continued depression is, in our judgment, more owing to want of confidence than to any or all other causes combined. Furnace built in 1853-4; went in blast April, 1854, and has been in constant blast since, with the exception of short intervals for necessary repairs, at no one time exceeding three months. We use none but the fossil ores mined from our own mines in this section, and lime from Lime Ridge, within three miles of furnace by rail, and coal from the Wyoming coal field. We make the best iron for many purposes made in this State. Our iron is very nearly neutral, with slight tendency to cold short.

Neshannock Iron Company.

New Castle, Lawrence county.

Persons employed, 32; capital employed in business, $150,000; amount paid for wages of employés, 17,000; amount paid for materials used in business, $215,000; product, 12,000 tons; value of product, $275,000.

Remarks.—Run on "Bessemer" iron exclusively.

Robesonia Furnaces.

Berks county.

Persons employed, 62; product, 6,645 tons; value of product, $125,000.

Rockhill Iron and Coal Company.

Orbisonia, Huntingdon county.

Product, 8,254 tons pig iron; value of product, $134,127 50.

Royer, John.

Royer, Blair county.

Persons employed, 120; capital employed in business, $200,000; amount paid for wages of employés, $23,000; amount paid for materials used in business, $10,000; product, 1,600 tons pig iron; value of product, $41,000.

Saucon Iron Company.

Hellertown, Northampton county.

Persons employed, 16; capital stock paid in, $600,000; amount paid for wages of employés, $5,000; amount paid for materials used in business, $500; product, 2,991 tons hematite ore, of nominal value.

Remarks.—Our furnaces are not in blast, and we are only working one mine, which we cannot well stop on account of water.

Shenango Iron Works, Reis, Brown & Berger.

New Castle, Lawrence county.

Persons employed, 70; amount paid for wages of employés, $44,363 66; amount paid for materials used in business, $395,613 73; product, 20,538 tons pig iron; value of product, $424,100 48.

REMARKS.—The Shenango iron-works comprise three blast furnaces, two rolling mills, one nail factory, railroad and boat spike factory, keg factory, two fire-brick yards, and one red brick yard. All of this large establishment has been idle for the past eleven months, with the exception of the fire-brick yard, which has been in operation a portion of that time, and one of the three blast furnaces. As this blank only calls for report on blast furnaces, we would say that the Rosena furnace (capacity 30,000 tons per annum) was in blast during all of the year 1876. The Sophia furnace and the Little Pet furnace are both out of blast, the former since April, 1874, and the latter since October, 1875, and the Rosena was also put out of blast in February, 1877. The united capacity of the three furnaces is about 75,000 tons of pig iron per annum. They are all well equipped with modern appliances, and unexcelled shipping facilities, and are now standing idle solely and entirely on account of the depressed condition of the trade. In the entire work, when in operation, there are employed about 700 men, who receive annually, in wages, about $400,000.

Shoenberger, Blair & Co.

Pittsburgh, Allegheny county.

Persons employed, 85; capital employed in business, between $300,000 and $400,000; amount paid for wages of employés, 34,000; amount paid for materials used in business, $375,000; product, 21,671 tons metal; value of product, $525,000.

REMARKS.—Business is exceedingly dull, and prices unremunerative. We can account for this on no other ground than that of overproduction.

Shorb, Stewart & Co.

Graysville, Huntingdon county.

REMARKS.—Since July, 1874, Pennsylvania furnace has been out of blast, except such time as was necessary to work up stock on hand. In the year 1876, we made but 46 tons of iron.

Spearman Iron Company.

Sharpesville, Mercer county.

Persons employed, 30; capital employed in business, $250,000; amount paid for wages of employées, $20,607; amount paid for materials used in business, $253,328; value of product, $254,300.

REMARKS.—Two blast furnaces. Manufacture pig iron for Bessemer, foundry, and rolling mill purposes. During the year we have had only one furnace in blast. The fuel used is principally the block or splint coal in its raw state, with a small percentage of coke, brought from the Connellsville region. The ore used is from the Lake Superior region. Owing to the low price of pig iron, and the general depression of the business of the country, the pig iron trade of Mercer county has been very materially reduced in the past year. Of the twenty-three furnaces in the county, there are now in operation only five, with but little prospect of any of the idle ones being put in blast.

Stewart Iron Company.

Sharon, Mercer county.

Persons employed, 46; capital employed in business, $300,000; amount paid for wages of employés, $26,699 99; amount paid for materials used in business, $189,534; product, 9,814 gross tons pig iron; value of product, $220,915.

Remarks.—The Stewart Iron Company's property embraces about thirty acres of land adjoining, or in the borough of Sharon, on which has been built an iron plant, consisting of one muck bar mill with sixteen puddling furnaces, all of the best modern construction, and two block furnace stacks, twelve and a half by fifty feet and fourteen by fifty-five feet, respectively. The capacity of each stack is from three hundred to four hundred tons of Bessemer pig per week. Extensive stock-houses, and about a mile of railroad tracks, are connected with the works. The muck mill has not been in operation during the past four years, and only one stack has been kept in blast, at any one time, since 1873. Lake Superior ores are used exclusively, and the iron made is worked into steel.

Stewardson Furnace.

Mahoning, Armstrong county.

Persons employed, 73; capital employed in business, $150,000; amount paid for wages of employés, $36,000; amount paid for material used in business, $35,000; product, 3,300 tons gray forge pig iron.

Thomas Iron Company.

Hokendauqua, Lehigh county.

Persons employed, 200; capital employed in business, $2,000,000; amount paid for wages of employés, $93,896; amount paid for materials used in business, $822,296; product, 52,813½ gross tons pig iron; value of product, sold at from $15 00 to $20 00 per ton at tide, according to quality.

Remarks.—Eight furnaces, of which three were in blast during the entire year, one thirty-four weeks and seven days, one twenty-seven weeks and six days, and one twelve weeks and three days. Two were not in blast at all.

Wampum Furnace Company.

Wampum, Lawrence county.

Persons employed, 45; capital employed in business, $150,000; amount paid for wages of employés, $20,000; amount paid for materials used in business, $102,000; product, 6,000 tons metal; value of product, $115,000.

Remarks.—We make neutral, cold short, and red short irons, and are specially adapted, and in a good native ore district, for making No. 1 foundry irons, which resemble Scotch pig. We ship foundry iron as far west as Chicago, and east as far as New York. We use bituminous coal and coke for smelting.

Warwick Iron Company.

Pottstown, Montgomery county.

Persons employed, 73; capital employed in business, $50,000, (working cash capital;) amount paid for wages of employés, $22,021; amount paid for materials used in business, $54,000; product, 3,330 tons pig iron; value of product, $57,460.

REMARKS.—The mines also produced 4,512 tons of ore, worth $9,024. The Warwick Iron Company, of Pottstown, Montgomery county, Pa., have one anthracite blast furnace, "Staffordshire," circular brick stack, banded with iron, fifty-five feet high from hearth to filling plate, sixteen feet diameter at head of bosh. The furnace was built in 1875, and put in blast on April 20, 1876; was out of blast about two months and ten days during the summer, which made her running time six months during the year 1876

The Warwick Iron Company have a magnetic iron ore mine at Boyertown, Berks county, Pa., on the Coalbrookdale railroad, eight miles from the furnace. The shaft is sunk vertical five hundred and ten feet, and the ore then mined in drifts and galleries, which are heavily propped with timber. The ore is all hard, and requires blasting.

Waterman & Beaver.

Danville, Montour county.

Persons employed, 239; capital employed in business, $900,000, in connection with rolling mills; product, 12,720 tons; value of product, $203,520.

REMARKS.—But two furnaces were in blast during the year, equaling eleven months run for the two. The mills and furnaces are owned and operated by one organization, the joint capital being $900,000.

Westerman Iron Company.

Sharon, Mercer county.

Persons employed, 64; amount paid for wages of employés, $29,493 44; product, 17,023 tons pig iron.

Wister Furnace, J. & J. Wister.

Harrisburg, Dauphin county.

Persons employed, 35; capital employed in business, $60,000; amount paid for wages of employés, $19,700; product, 6,546 tons pig iron; value of product, $124,374.

REMARKS.—Furnace was in operation only nine months during the year. Was out of blast the remaining three months for repairs.

BLAST FURNACES.—RECAPITULATION.

NAMES.	LOCATION.	COUNTY.	Number of employees.	Capital employed in business.	Amount paid annually for wages of employees.	Amount paid annually for materials used in business.	Annual product, in tons.	Value of annual product.
Allentown Iron Company,	Allentown,	Lehigh,	328	$1,000,000 00	$44,797 92	$444,655 90	25,780	$438,000 00
Blair Iron and Coal Company,	Bennington Furnace,	Blair,	72	...	23,724 52	...	4,453	106,872 00
Blair Iron and Coal Company,	Frankstown,	Blair,	49	...	18,844 48	...	5,098	89,456 00
Blair Iron and Coal Company,	Hollidaysburg,	Blair,	67	...	22,236 77	...	8,583½	197,472 00
Blair Iron and Coal Company,	Hollidaysburg,	Blair,	51	...	18,998 88	...	5,974½	95,592 00
Bloomsburg Iron Company,	Bloomsburg,	Columbia,	148	...	...	...	5,857	117,140 00
Brown & Mosgrove,	Kittanning,	Armstrong,	120	66 000 00	...	...	2,927½	64,400 00
Chickies Iron Company,	Chickies,	Lancaster,	135	150,000 00	...	...	12,056	255,701 28
Clymer Iron Company,	Temple,	Berks,	45	30,000 00	15,000 00	10,000 00	1,000	31,000 00
Crowther Iron Company,	New Castle,	Lawrence,	37	200,000 00	25,000 00	...	9,000	...
Donaghmore Furnace,	Lebanon,	Lebanon,	28	...	...	...	4,500	...
Dunbar Furnace Company,	Dunbar,	Fayette,	289	200,000 00	123,847 00	17,218 90	3,263	60,057 84
East Penn Iron Company,	Lyons Station,	Berks,	34	...	15,260 44	...	5,816	90,000 00
Glamorgan Iron Company,	Lewistown,	Mifflin,	30	...	3,000 00	...	140	2,800 00
Grove Brothers,	Danville,	Montour,	149	1,057,358 90	79,139 76	120,540 46	6,251	137,543 16
Grubb, C. B., & Son,	Columbia,	Lancaster,	75	100,000 00	...	...	...	90,117 00
Grubb, C. B., & Son,	Columbia,	Lancaster,	40	50,000 00	...	...	...	81,871 00
Kaufman, Wm. M., & Co.	Sheridan,	Lebanon,	40	521,117 75	20,081 24	126,835 22	8,439	163,189 84
Kemble Coal and Iron Company,	Riddlesburg,	Bedford,	200	500,000 00	103,000 00	30,000 00	10,124	...
Kimberly, Carnes & Co.,	Sharon,	Mercer,	35	...	14,600 00	...	5,596	...
Lehigh Iron Company,	Allentown,	Lehigh,	200	250,000 00	61,500 00	180,000 00	12,000	...
Lehigh Valley Iron Company,	Coplay,	Lehigh,	75	600,000 00	30,000 00	250,000 00	18,000	...
Logan Iron and Steel Company,	Huntingdon,	Huntingdon,	170	...	30,000 00	26,000 00	1,616	56,000 00
Lowry, Eichelberger & Sons,	Barre Furnace,	Huntingdon,	100	...	19,400 00	9,600 00	1,100	33,000 00
Matilda Furnace,	Mount Union,	Huntingdon,	50	...	18,250 00	30,000 00	3,000	51,000 00
Meily, J. & R.,	Lebanon,	Lebanon,	25	...	12,500 00	80,000 00	5,000	100,000 00
Monocacy Furnace Company,	Monocacy Station,	Berks,	30	...	17,000 00	155,000 00	8,427	...
Montgomery Iron Company,	Port Kennedy,	Montgomery,	32	150,000 00	...	...	...	...
Neal, W., & Sons,	Bloomsburg,	Columbia,	190	150,000 00	60,000 00	65,000 00	7,721½	135,131 25
Neshannock Iron Company,	New Castle,	Lawrence,	32	150,000 00	17,000 00	215,000 00	12,000	275,000 00
Robesonia Furnaces,	Robesonia Furnaces,	Berks,	62	...	...	...	6,615	125,000 00
Rockhill Iron and Coal Company,	Orbisonia,	Huntingdon,	...	...	...	...	8,251	134,127 50
Royer, John,	Royer,	Blair,	120	200,000 00	23,000 00	10,000 00	1,600	41,000 00
Saucon, Iron Company,	Hellertown,	Northampton,	16	600,000 00	5,000 00	,500 00	...	...
Shenango Iron Works,	New Castle,	Lawrence,	70	...	44,363 66	395,613 73	20,538	424,100 48
Shoenberger, Blair & Co,	Pittsburgh,	Allegheny,	85	300,000 00	34,000 00	375,000 00	21,671	525,000 00

BLAST FURNACES.—RECAPITULATION—CONTINUED.

NAMES.	LOCATION.	COUNTY.	Number of employees.	Capital employed in business.	Amount paid annually for wages of employees.	Amount paid annually for materials used in business.	Annual product in tons.	Value of annual product.
Shorb, Stewart & Co.,	Graysville,	Huntingdon,	. . . .	. . . .	. . . .	. . . .	46	
Spearman Iron Company,	Sharpsville,	Mercer,	30	$250,000 00	$20,607 00	$253,328 00	. . . .	$254 300 00
Stewart Iron Company,	Sharon,	Mercer,	46	300,000 00	26,699 99	189,534 00	9,814	220,915 00
Stewartson Furnace,	Mahoning,	Armstrong,	73	150,000 00	36,000 00	35,000 00	3,300	. . . .
Thomas Iron Company,	Hokendauqua,	Lehigh,	200	2,000,000 00	93,896 00	822,296 00	52,813½	950,643 00
Wampum Furnace Company,	Wampum,	Lawrence,	45	150,000 00	20,000 00	102,000 00	6,000	115,000 00
Warwick Iron Company,	Pottstown,	Montgomery,	73	50,000 00	22,021 00	54,000 00	3,380	57,460 00
Waterman & Beaver,	Danville,	Montour,	239	900,000 00	. . . .	. . . .	12,720	203,520 00
Westerman Iron Company,	Sharon,	Mercer,	64	. . . .	29,493 44	. . . .	17,023	. . . .
Wister Furnace,	Harrisburg,	Dauphin,	35	60,000 00	19,700 00	. . . .	6,546	124,374 00
Totals reported,	. . . .	. . . .	4,034	$10,134,476 65	$1,168,012 10	$3,997,132 21	364.073½	$5,846,783 35

ROLLING MILLS.

ALLEGHENY COUNTY.

Lewis Dalzell & Co.

Pittsburgh, Pa.

Persons employed, 337; amount of capital invested, $600,000; amount paid for wages of employés, $110,000; amount paid for materials used, $200,000; annual production, 8,000 tons; value of annual production, $400,000.

Manufacture bar, boiler, sheet, and tank iron, cold rolled sheet iron, patent dripping and bread pans, and nails.

Pennsylvania Iron Works—Everson, Macrum & Co., Proprietors.

Pittsburgh, Pa.

Persons employed, 165; amount paid annually for wages to employés, $110,000; annual production, 6,200 tons; value of annual production, $300,000.

Merchant, bar, and sheet iron.

Pittsburgh Forge and Iron Company.

Pittsburgh, Pa.

Persons employed, 159; amount of capital invested, $200,000; amount paid for wages of employés, $100,000; amount paid for materials used, $125,000; annual production, 6,000 tons; value of annual production, $360,000.

Manufacture merchant iron, railway splice joints, car axles, and forgings.

Juniata Iron Works—Shoenberger & Co., Proprietors.

Pittsburgh, Pa.

Persons employed, 400; amount of capital invested, $400,000; amount paid for wages of employés, $225,000; amount paid for material used, $325,000; annual production, 12,000 tons; value of annual production, $750,000.

Trade has been rather brisk, but prices very low.

J. Painter & Sons.

Pittsburgh, Pa.

Persons employed, 734; amount of capital invested, $1,500,000; amount paid for wages of employés, $400,000; amount paid for materials used, $850,000; annual production, 21,118 tons; value of annual products, $1,313,200.

These works contain fifty-two single puddling furnaces, fifteen heating furnaces, two 18-inch train rolls, (muck trains,) one 16-inch train roll, one 12-inch train roll, three 10-inch train rolls, six 8-inch train rolls, and other equipments for the working of one hundred tons iron puddled per day. All machinery, furnaces, &c., are covered by fire proof iron buildings. Tenement houses for all employés are owned by the firm. Sole products are hoop and band iron for barrels, pails, cotton ties, hinges, locks, &c.

Star Iron Works, Lindsey & McCutcheon, Proprietors.

Pittsburgh, Pa.

Persons employed, 145; amount of capital invested, $400,000; amount paid for wages of employés, $85,733 30; amount paid for materials used, $255,473; annual production, 6,006 tons; value of annual products, $360,360.

Manufacture hoop and band iron.

Sligo Iron Mills—Phillips, Nimicks & Co., Proprietors.

Pittsburgh, Pa.

Persons employed, 300; amount of capital invested, $900,000; amount paid for wages of employés, $130,000; amount paid for materials used, $250,000; annual production, 5,200 tons; value of annual products, $420,000.

McKeesport Iron Works—W. D. Wood & Co.

Pittsburgh, Pa.

Persons employed, 250; amount of capital invested, $350,000; amount paid for wages of employés, $125,000; annual production, 3,365 tons; value of annual products, $541,425 84.

We make sheet iron exclusively, our patent planished sheet iron being our specialty. Trade rather dull.

Wm. Clark & Co.

Pittsburgh, Pa.

Persons employed, 200; amount of capital invested, $200,000; amount paid for wages of employés, $110,000; amount paid for materials used, $275,000; value of annual products, $425,000.

Manufacture hoop and band iron.

BLAIR COUNTY.

Altoona Iron Company.

Altoona, Blair county, Pa.

Persons employed, 64; amount of capital invested, $10,000; amount paid for wages of employés, $33,694 71; amount paid for material used, $72,416 80; annual production, 2,734 tons; value of annual production, $139,799 97.

Manufacture merchant iron; has a yearly capacity of four thousand tons.

BERKS COUNTY.

Keystone Iron Works.

Peading, Pa.

Persons employed, 80; amount of capital invested, $100,000; amount paid for wages of employés, $36,000; amount paid for materials used, $100,000; annual production, 3,500 tons; value of annual products, $150,000.

Manufacture plate iron and muck bars.

NORTHAMPTON COUNTY.

Syd. L. Uhler.

Two 500-℔ engines; one 46-inch Fourdrinier. Steam. Straw board. Three tons, twenty-four hours. Post office, Uhlersville.

PHILADELPHIA COUNTY.

Riverside Mill, Andora.

W. C. Hamilton & Son, (Wm. C. and Chas. L. Hamilton.) Five engines and one Gould engine; one 62-inch and one 64-inch Fourdrinier. Steam. Book and envelope. Six thousand pounds, twelve hours. Post office, Philadelphia.

Riverside Mill.

Baeder, Adamson & Co. Eight 300-℔ engines; one cylinder. Steam. Manilla, for own use in making sand paper. Post office, Philadelphia.

Philadelphia Inquirer Paper Mill.

Wm. W. Harding. Two 600-℔, six 400-℔, two Jordan, and one Gould engines; one 62-inch and one 76-inch Fourdrinier. Water and steam. News and book. Five tons, twenty-four hours. Post office, Philadelphia.

John Lang.

Three 350-℔ engines; one 44-inch cylinder. Steam. Roofing. Three tons, twenty-four hours. Post office, Philadelphia.

Wissahickon Mills.

Charles Megarge & Co. Two mills. Eleven 375-℔ engines; two 62-inch Fourdriniers. Water and steam. Book. Eight thousand pounds, twenty-four hours. Post office, Philadelphia.

Hanwell Mills.

Charles Megarge. Five 400-℔ engines; one 62-inch Fourdrinier. Water and steam. Book. Three thousand five hundred pounds, twenty-four hours. Post office, Philadelphia.

Manayunk Wood Pulp Works.

American Wood Paper Company and Jessup & Moore. Ten upright boilers; four 1,000-℔ engines; one cylinder, and two wet machines. Water and steam. Wood pulp. Ffteen tons, twenty-four hours. Post office, Philadelphia.

Flat Rock Mills.

Martin Nixon & Co., (M. and W. H. Nixon.) Ten 625-℔, six 400-℔, and three Jordan engines; four Fourdriniers, 62-inch, 72-inch, 72-inch, and 86-inch. Water and steam. News and book. Ten tons, twenty-four hours. Post office, Manayunk.

Nixon & Stokes.

Four 600-℔ engines; one 72-inch Fourdrinier. Water and steam. Manilla. Two tons, twenty-four hours. Post office, Philadelphia.

Ashland Paper Mill.

S. A. Rudolph & Son, (S. A. and Aug. S. Rudolph.) Eight 400-℔ engines; one 76-inch and one 62-inch Fourdrinier, and two wet machines. Water and steam. News. Four tons, twenty-four hours, Post office, Philadelphia.

Perseverance Roofing Paper Mill.

Joseph Stelwagon & Sons, (Joseph, Wm. H., and Robert P. Stelwagon.) Two 250-℔ and one 200-℔ engines; one 40-inch cylinder. Water and steam. Roofing. Five thousand pounds, twenty-four hours. Post office, Philadelphia.

E. C. & P. H. Warren.

Five 300-℔ engines; one 72-inch Fourdrinier. Steam. Book. One and a half tons, Twenty-four hours. Post office, Philadelphia.

WASHINGTON COUNTY.

Union Paper Mills.

R. S. D. Hartrick, S. D. Culbertson. Five 500-℔ engines; three 62-inch cylinder vats and two 42-inch wet machines. Water and steam. Straw board. Five tons, twenty-four hours. Post office, Monongahela city.

WESTMORELAND COUNTY.

Loyalhanna Mill, Latrobe.

James Peters, (succeeds Metzgar & Peters.) Two 366-℔ engines; one 48-inch cylinder. Steam. Roofing and wrapping. Three thousand pounds, twenty-four hours. Post office, Pittsburgh.

Smith's Mill.

J. H. Smith & Co. Two 400-℔ engines; one 33-inch cylinder. Steam. Straw wrapping. Two thousand five hundred pounds, twenty-four hours. Post office, Smithton.

West Newton Mills, (two mills.)

C. P. Markle & Sons. Built, 1858. Burned, August 11, 1875; loss, $40,000. Immediately rebuilt. Pulp mills totally destroyed by fire July, 1877, and were entirely reconstructed and in full operation in eighty days afterwards. Two 600-℔, one 500-℔, and five 350-℔ engines; two 86-inch Fourdriniers. Steam. Straw print and pulp. Five tons, twenty-four hours. In manufacture of paper, one hundred and twenty cords of wood, one hundred and twenty-five tons of straw, thirty thousand pounds of chloride of lime, and eighty thousand pounds of potash are used per month. Post office, West Newton and Pittsburgh.

Mill Grove Mill.

C. P. Markle & Sons. Two 700-℔ engines; one 62-inch double cylinder. Steam and water. Wrapping. Two tons, twenty-four hours. Post office, West Newton and Pittsburgh.

YORK COUNTY.

Spring Grove Mill.

P. H. Gladfelter. Three 400-℔ and two 1,000-℔ engines; one 82-inch Fourdrinier. Water and steam. Straw print. Seven thousand five hundred pounds, twenty-four hours. Post office, Spring Forge.

Codorus Mill, York.

A. D. Jessup. Three 300-℔ engines; one 48-inch Fourdrinier. Steam and water. Writing. One thousand five hundred pounds, twenty-four hours. Post office, Philadelphia.

Mrs. M. S. Wheelwright, York.

Three 300-℔ engines; one 42-inch Fourdrinier. Water and steam. News. One thousand eight hundred pounds, twenty-four hours. (Idle.) Post office, Baltimore, Md.

From the foregoing we deduct the following facts: There are in the State ninety-four firms and one hundred and two paper mills—four of which are idle. Chester county alone has *thirty-two* mills, almost one third of the whole number in the State. These mills are located in twenty-six counties, and are distributed as follows: Adams, 1; Allegheny, 2; Beaver, 1; Berks, 6; Blair, 1; Bucks, 1; Centre, 1; Chester, 32; Columbia, 2; Crawford, 1; Cumberland, 7; Delaware, 7; Erie, 2; Franklin, 3; Indiana, 2; Lancaster, 2; Lawrence, 1; Lebanon, 1; Luzerne, 2; Lycoming, 1; Montgomery, 5; Northampton, 1; Philadelphia, 12; Washington, 1; Westmoreland, 4; York, 3; total, 102.

THE IRON TRADE.

BLAST FURNACES AND ROLLING MILLS.

Pennsylvania has two hundred and ninety-seven blast furnaces, with an annual capacity of two million two hundred and sixty-four thousand nine hundred tons. Owing to the financial condition of the country, the greater part of them are not in operation. Of rolling mills, the State has one hundred and thirty-seven, with an annual capacity of one million six hundred and twenty-four thousand five hundred tons. The returns herewith comprise near all the establishments in operation during the year. The Cambria Iron Company, the leading establishment in the State, failed to report. Scores returned the blanks marked "out of blast," or "not in operation." The iron-workers generally indulge in complaint. The manufacturers of bar iron say that the market was much depressed, and sales to supply immediate wants could only be made, and these in very small lots. The proprietors of furnaces in operation, in a great many cases, claim that they have not realized sufficient during the year to pay the interest of their investments. A number give their reasons, in connection with their reports, for the cause of this state of affairs.

BLAST FURNACES.

Allentown Iron Company—Samuel Lewis, Agent.

Allentown, Lehigh county.

Persons employed, 328; capital employed in business, $1,000,000; amount paid for wages of employés, $44,797 92; amount paid for materials used in business, $444,665 90; product, 25,780 tons; value of product, $438,000.

Blair Iron and Coal Company, Bennington Furnace.

Bennington, Blair county.

Persons employed, 72 men and boys; amount paid for wages of employés, $23,724 52; product, 4,453 tons Bessemer; value of product, $106,872.

Blair Iron and Coal Company, Frankstown Furnace.

Frankstown, Blair county.

Persons employed, 49 men and boys; amount paid for wages of employés, $18,844 48; product, 194½ tons Bessemer, 317 tons spiegle, 4,586½ tons mill; value of product, $89,456.

Blair Iron and Coal Company, Hollidaysburg Furnace, No. 1.

Hollidaysburg, Blair county.

Persons employed, 67 men and boys; amount paid for wages of employés, $22,286 77; product, 1,065½ tons mill, 7,518 tons Bessemer; value of product, $197,472.

Blair Iron and Coal Company, Hollidaysburg Furnace, No. 2.

Hollidaysburg, Blair county.

Persons employed, 51 men and boys, amount paid for wages of employés, $18,998 88; product, 5,974½ tons mill; value of product, $95,592.

Bloomsburg Iron Company.

Bloomburg, Columbia county.

Persons employed, 140 men, 8 boys; product, 5,857 gross tons pig iron; value of product, $117,140.

Two furnaces; only one in blast since November, 1873. Business very dull, and carried on at a heavy loss.

Brown & Mosgrove.

Kittanning, Armstrong county.

Persons employed, 120; capital employed in business, $66,000; amount paid for wages of employés, coal, and ore, $80,000; made 2,927½ tons pig metal, worth $64,400.

Remarks.—The store cleared in the year $22,000, so that without these profits in connection with the iron business, the latter would have been a failure.

Chickies Iron Company.

Chickies, Lancaster county.

Persons employed, 135; capital stock of company, $150,000; amount paid for wages of employés and materials used in businee, $229,678 09; product, 12,056 gross tons; value of product, $255,701 28.

Clymer Iron Company.

Temple, Berks county.

Persons employed, 45; capital employed in business, $30,000; amount paid for wages of employés, $15,000; amount paid for materials used in business, $10,000; product, 1,000 tons cold blast charcoal iron, worth $31,000.

Remarks.—The above is an average, as near as may be, of the working of an old-fashioned cold blast charcoal furnace. It is called the Oley Furnace, and is in Oley township, Berks county. The stack now in blast was built in the year 1772, and has been in use, with the exception of about ten years, about the year 1852, ever since it was built. The number of men employed at a charcoal furnace varies very much, according to the season of the year. During the summer season the colliers, wood haulers, &c., make the force pretty large; in the winter these are not employed. Charcoal iron is at present in very limited demand, owing to the fact that about the only use now made of it is for railroad wheels, and the business of railroads is anything but prosperous.

Crowhter Iron Company, Clara Furnace.

New Castle, Lawrence county.

Persons employed, 37; capital employed in business, $200,000; amount paid for wages of employés, $25,000.

REMARKS.—In blast only seven months. Made 9,000 tons Bessemer metal.

Donaghmore Furnace—R. W. Coleman's Heirs.

Lebanon, Lebanon county.

Persons employed, 28; product, 4,500 tons pig iron.

REMARKS.—Anthracite furnace: Boshes, 14 feet; height of stack, 41 feet. Furnace in blast ten months, but gave men work all year.

Dunbar Furnace Company.

Dunbar, Fayette county.

Persons employed, 289; capital employed in business, $200,000; amount paid for wages of employés, $123,847; amount paid for materials used in business, $17,218 90; product, 3,263 tons; value of product, $60,057 84.

REMARKS.—The Dunbar Furnace Company was re-organized June 1, 1876, and during that year re-built the furnace, the improvements costing $173,000. The present furnace is 77 feet high and 20 feet bosh, and was blown in February 23, 1877. The ores used are the native carbonates, with mixture of mill cinder, lake, and Cornwall ores.

East Penn Iron Company.

Lyons Station, Berks county.

Persons employed, 34; amount paid for wages of employés, $15,260 44; product, 5,816 tons; value of product, $90,000.

REMARKS.—The furnaces of the East Penn Iron Company were sold by the sheriff of Berks county to the Philadelphia and Reading Coal and Iron Company, June 19, 1877.

Glamorgan Iron Company.

Lewistown, Mifflin county.

Persons employed, 30; amount paid for wages of employés, $3,000; product, 140 tons; value of product, $2,800.

Grove Brothers.

Danville, Montour county.

Persons employed, 149; capital employed in business, $1,057,358 90; amount paid for wages of employés, $79,139 76; amount paid for materials used in business, $120,540 46; product, 6,251 tons; value of product, $137,543 16.

Grubb, C. B. & Son.

Columbia, Lancaster county.

Persons employed, 75, (35 at furnace and 40 at ore banks;) capital employed in business, $100,000; value of product, $90,117.

Grubb, C. B. & Son.

Columbia, Lancaster county. Furnace in West Hempfield township, Lancaster county.

Persons employed, 40; capital employed in business, $50,000; value of annual product, $81,871.

Kaufman, Wm. M. & Co.

Sheridan, Lebanon county.

Persons employed, 40; capital employed in business, $521,117 75; amount paid for wages of employés, $20,081 24; amount paid for materials used in business, $126,835 22; product, 8,439 tons; value of product, $163,189 84.

Kemble Coal and Iron Company.

Riddlesburg, Bedford county.

Persons employed, 200 to 235; capital employed in business, $500,000; amount paid for wages of employés, $103,000; amount paid for materials used in business, $30,000; product, 10,124 tons pig iron.

Remarks.—The figures here given are about the average when one furnace is running. Furnace No. 2 was stopped April 22, 1877, and Furnace No. 1 is being repaired and will be put in blast in a short time. The Kemble Coal and Iron Company commenced operations here in 1868. Furnace No. 1 was put in blast July 3, 1869, but has not been running since October 20, 1873. Furnace No. 2 was put in blast March 4, 1871, and stopped April 22, 1877. The principal ore mines are at Tatesville and Wolfsburg, in this county; the coal is mined about one half mile from furnace; the limestone is obtained at Cove Station, Huntingdon county. Pig iron is the only production. Dimensions of furnaces, each 65x14. There are in connection with furnaces 88 coke ovens, coal washer, &c.

Kimberly, Carnes & Co.—Keel Ridge Furnace.

Sharon, Mercer county.

Persons employed, 35; amount paid for wages of employés, $14,600; product, 5,596 tons metal.

Lehigh Iron Company.

Allentown, Lehigh county.

Persons employed, 200; capital employed in business, $250,000; amount paid for wages of employés, $61,500; amount paid for materials used in business, $180,000; product, 12,000 tons pig iron.

Remarks.—Manufacture foundry and forge pig iron, noted for its softness, fuidity, and strength.

Lehigh Valley Iron Company.

Coplay, Lehigh county.

Persons employed, 75; capital employed in business, $600,000; amount paid for wages of employés, $30,000, when two stacks are in blast; amount paid for materials used in business, $250,000; product, 18,000 tons.

Logan Iron and Steel Company—Greenwood Furnace.

Huntingdon, Huntingdon county.

Persons employed, 170; amount paid for wages of employés, $30,000; amount paid for materials used in business, $26,000; product, 1,616 tons charcoal pig iron; value of product, $56,000.

Lowry, Eichelberger & Sons, Barre Furnace.

Barre Forge, Huntingdon county.

Persons employed, 100; amount paid for wages employés, $19,400; amount paid for materials used in business, $9,600; product, 1,100 tons metal; value of product, $33,000.

REMARKS.—Barre furnace is situated on the Little Juniata river and Pennsylvania railroad. Stack, 30 feet high; 8 feet bosh; 2 tweers. Blast made by water power. Make from thirty to forty tons of charcoal pig iron a week, out of the celebrated Dorsy ore.

Matilda Furnace.

Mount Union, Huntingdon county.

Persons employed, 50; amount paid for wages of employés, $18,250; amount paid for materials used in business, $30,000; product, 3,000 tons pig iron; value of product, $51,000.

REMARKS.—This furnace was blown out November 6, 1876, because iron could not be made at a profit.

Meily, J. & R., Lebanon Valley Furnace.

Lebanon, Lebanon county.

Persons employed, 25; amount paid for wages of employés, $12,500; amount paid for materials used in business, $80,000; product, 5,000 tons pig iron; value of product, $100,000.

Monocacy Furnace Company.

Monocacy Station, Berks county.

Persons employed, 30 to 35; amount paid for wages of employés, $17,000; amount paid for materials used in business, $155,000; product, 8,427 gross tons pig iron.

REMARKS.—Monocacy furnace is a stone stack, 14 feet bosh and 50 feet high. Product during the year, principally foundry iron, five per centum only being No. 3, or gray forge iron.

Montgomery Iron Company.

Port Kennedy, Montgomery county.

Persons employed, 32, when in blast; capital employed in business, $150,000.

REMARKS.—One blast furnace; can produce 8,000 tons per year.

Neal, W., & Sons.

Bloomsburg, Columbia county.

Persons employed, 190; capital employed in business, $150,000; amount paid for wages of employés, $60,000; amount paid for materials used in business, $65,000; product, 7,721½ gross tons; value of product, $135,131 25.

Remarks.—For the past three years, or more, since the panic of 1873, the iron business in this section has been, and still is, in a very depressed condition. Sales slow and prices realized affording no margin for profit. For the last two years we have not received interest for the money invested, and the continued depression is, in our judgment, more owing to want of confidence than to any or all other causes combined. Furnace built in 1853-4; went in blast April, 1854, and has been in constant blast since, with the exception of short intervals for necessary repairs, at no one time exceeding three months. We use none but the fossil ores mined from our own mines in this section, and lime from Lime Ridge, within three miles of furnace by rail, and coal from the Wyoming coal field. We make the best iron for many purposes made in this State. Our iron is very nearly neutral, with slight tendency to cold short.

Neshannock Iron Company.

New Castle, Lawrence county.

Persons employed, 32; capital employed in business, $150,000; amount paid for wages of employés, 17,000; amount paid for materials used in business, $215,000; product, 12,000 tons; value of product, $275,000.

Remarks.—Run on "Bessemer" iron exclusively.

Robesonia Furnaces.

Berks county.

Persons employed, 62; product, 6,645 tons; value of product, $125,000.

Rockhill Iron and Coal Company.

Orbisonia, Huntingdon county.

Product, 8,254 tons pig iron; value of product, $134,127 50.

Royer, John.

Royer, Blair county.

Persons employed, 120; capital employed in business, $200,000; amount paid for wages of employés, $23,000; amount paid for materials used in business, $10,000; product, 1,600 tons pig iron; value of product, $41,000.

Saucon Iron Company.

Hellertown, Northampton county.

Persons employed, 16; capital stock paid in, $600,000; amount paid for wages of employés, $5,000; amount paid for materials used in business, $500; product, 2,991 tons hematite ore, of nominal value.

Remarks.—Our furnaces are not in blast, and we are only working one mine, which we cannot well stop on account of water.

Shenango Iron Works, Reis, Brown & Berger.

New Castle, Lawrence county.

Persons employed, 70; amount paid for wages of employés, $44,363 66; amount paid for materials used in business, $395,613 73; product, 20,538 tons pig iron; value of product, $424,100 48.

REMARKS.—The Shenango iron-works comprise three blast furnaces, two rolling mills, one nail factory, railroad and boat spike factory, keg factory, two fire-brick yards, and one red brick yard. All of this large establishment has been idle for the past eleven months, with the exception of the fire-brick yard, which has been in operation a portion of that time, and one of the three blast furnaces. As this blank only calls for report on blast furnaces, we would say that the Rosena furnace (capacity 30,000 tons per annum) was in blast during all of the year 1876. The Sophia furnace and the Little Pet furnace are both out of blast, the former since April, 1874, and the latter since October, 1875, and the Rosena was also put out of blast in February, 1877. The united capacity of the three furnaces is about 75,000 tons of pig iron per annum. They are all well equipped with modern appliances, and unexcelled shipping facilities, and are now standing idle solely and entirely on account of the depressed condition of the trade. In the entire work, when in operation, there are employed about 700 men, who receive annually, in wages, about $400,000.

Shoenberger, Blair & Co.

Pittsburgh, Allegheny county.

Persons employed, 85; capital employed in business, between $300,000 and $400,000; amount paid for wages of employés, 34,000; amount paid for materials used in business, $375,000; product, 21,671 tons metal; value of product, $525,000.

REMARKS.—Business is exceedingly dull, and prices unremunerative. We can account for this on no other ground than that of overproduction.

Shorb, Stewart & Co.

Graysville, Huntingdon county.

REMARKS.—Since July, 1874, Pennsylvania furnace has been out of blast, except such time as was necessary to work up stock on hand. In the year 1876, we made but 46 tons of iron.

Spearman Iron Company.

Sharpesville, Mercer county.

Persons employed, 30; capital employed in business, $250,000; amount paid for wages of employées, $20,607; amount paid for materials used in business, $253,328; value of product, $254,300.

REMARKS.—Two blast furnaces. Manufacture pig iron for Bessemer, foundry, and rolling mill purposes. During the year we have had only one furnace in blast. The fuel used is principally the block or splint coal in its raw state, with a small percentage of coke, brought from the Connellsville region. The ore used is from the Lake Superior region. Owing to the low price of pig iron, and the general depression of the business of the country, the pig iron trade of Mercer county has been very materially reduced in the past year. Of the twenty-three furnaces in the county, there are now in operation only five, with but little prospect of any of the idle ones being put in blast.

Stewart Iron Company.

Sharon, Mercer county.

Persons employed, 46; capital employed in business, $300,000; amount paid for wages of employés, $26,699 99; amount paid for materials used in business, $189,534; product, 9,814 gross tons pig iron; value of product, $220,915.

REMARKS.—The Stewart Iron Company's property embraces about thirty acres of land adjoining, or in the borough of Sharon, on which has been built an iron plant, consisting of one muck bar mill with sixteen puddling furnaces, all of the best modern construction, and two block furnace stacks, twelve and a half by fifty feet and fourteen by fifty-five feet, respectively. The capacity of each stack is from three hundred to four hundred tons of Bessemer pig per week. Extensive stock-houses, and about a mile of railroad tracks, are connected with the works. The muck mill has not been in operation during the past four years, and only one stack has been kept in blast, at any one time, since 1873. Lake Superior ores are used exclusively, and the iron made is worked into steel.

Stewardson Furnace.

Mahoning, Armstrong county.

Persons employed, 73; capital employed in business, $150,000; amount paid for wages of employés, $36,000; amount paid for material used in business, $35,000; product, 3,300 tons gray forge pig iron.

Thomas Iron Company.

Hokendauqua, Lehigh county.

Persons employed, 200; capital employed in business, $2,000,000; amount paid for wages of employés, $93,896; amount paid for materials used in business, $822,296; product, 52,813½ gross tons pig iron; value of product, sold at from $15 00 to $20 00 per ton at tide, according to quality.

REMARKS.—Eight furnaces, of which three were in blast during the entire year, one thirty-four weeks and seven days, one twenty-seven weeks and six days, and one twelve weeks and three days. Two were not in blast at all.

Wampum Furnace Company.

Wampum, Lawrence county.

Persons employed, 45; capital employed in business, $150,000; amount paid for wages of employés, $20,000; amount paid for materials used in business, $102,000; product, 6,000 tons metal; value of product, $115,000.

REMARKS.—We make neutral, cold short, and red short irons, and are specially adapted, and in a good native ore district, for making No. 1 foundry irons, which resemble Scotch pig. We ship foundry iron as far west as Chicago, and east as far as New York. We use bituminous coal and coke for smelting.

Warwick Iron Company.

Pottstown, Montgomery county.

Persons employed, 73; capital employed in business, $50,000, (working cash capital;) amount paid for wages of employés, $22,021; amount paid for materials used in business, $54,000; product, 3,380 tons pig iron; value of product, $57,460.

REMARKS.—The mines also produced 4,512 tons of ore, worth $9,024. The Warwick Iron Company, of Pottstown, Montgomery county, Pa., have one anthracite blast furnace, "Staffordshire," circular brick stack, banded with iron, fifty-five feet high from hearth to filling plate, sixteen feet diameter at head of bosh. The furnace was built in 1875, and put in blast on April 20, 1876; was out of blast about two months and ten days during the summer, which made her running time six months during the year 1876

The Warwick Iron Company have a magnetic iron ore mine at Boyertown, Berks county, Pa., on the Coalbrookdale railroad, eight miles from the furnace. The shaft is sunk vertical five hundred and ten feet, and the ore then mined in drifts and galleries, which are heavily propped with timber. The ore is all hard, and requires blasting.

Waterman & Beaver.

Danville, Montour county.

Persons employed, 239; capital employed in business, $900,000, in connection with rolling mills; product, 12,720 tons; value of product, $203,520.

REMARKS.—But two furnaces were in blast during the year, equaling eleven months run for the two. The mills and furnaces are owned and operated by one organization, the joint capital being $900,000.

Westerman Iron Company.

Sharon, Mercer county.

Persons employed, 64; amount paid for wages of employés, $29,493 44; product, 17,023 tons pig iron.

Wister Furnace, J. & J. Wister.

Harrisburg, Dauphin county.

Persons employed, 35; capital employed in business, $60,000; amount paid for wages of employés, $19,700; product, 6,546 tons pig iron; value of product, $124,374.

REMARKS.—Furnace was in operation only nine months during the year. Was out of blast the remaining three months for repairs.

BLAST FURNACES.—RECAPITULATION.

NAMES.	LOCATION.	COUNTY.	Number of employees.	Capital employed in business.	Amount paid annually for wages of employees.	Amount paid annually for materials used in business.	Annual product, in tons.	Value of annual product.
Allentown Iron Company,	Allentown,	Lehigh,	328	$1,000,000 00	$44,797 92	$444,655 90	25,780	$438,000 00
Blair Iron and Coal Company,	Bennington Furnace,	Blair,	72		23,724 52		4,453	106,872 00
Blair Iron and Coal Company,	Frankstown,	Blair,	49		18,844 48		5,098	89,456 00
Blair Iron and Coal Company,	Hollidaysburg,	Blair,	67		22,286 77		8,583½	197,472 00
Blair Iron and Coal Company,	Hollidaysburg,	Blair,	51		18,998 88		5,974½	95,592 00
Bloomsburg Iron Company,	Bloomsburg,	Columbia,	148				5,857	117,140 00
Brown & Mosgrove,	Kittanning,	Armstrong,	120	66,000 00			2,927½	64,400 00
Chickies Iron Company,	Chickies,	Lancaster,	135	150,000 00			12,056	255,701 28
Clymer Iron Company,	Temple,	Berks,	45	30,000 00	15,000 00	10,000 00	1,000	31,000 00
Crowther Iron Company,	New Castle,	Lawrence,	37	200,000 00	25,000 00		9,000	
Donaghmore Furnace,	Lebanon,	Lebanon,	28				4,500	
Dunbar Furnace Company,	Dunbar,	Fayette,	289	200,000 00	123,847 00	17,218 90	3,263	60,057 84
East Penn Iron Company,	Lyons Station,	Berks,	34		15,260 44		5,816	90,000 00
Glamorgan Iron Company,	Lewistown,	Mifflin,	30		3,000 00		140	2,800 00
Grove Brothers,	Danville,	Montour,	149	1,057,358 90	79,139 76	120,540 46	6,251	137,543 16
Grubb, C. B., & Son,	Columbia,	Lancaster,	75	100,000 00				90,117 00
Grubb, C. B., & Son,	Columbia,	Lancaster,	40	50,000 00				81,871 00
Kaufman, Wm. M., & Co..	Sheridan,	Lebanon,	40	521,117 75	20,081 24	126,835 22	8,439	163,189 81
Kemble Coal and Iron Company,	Riddlesburg,	Bedford,	200	500,000 00	103,000 00	30,000 00	10,124	
Kimberly, Carnes & Co.,	Sharon,	Mercer,	35		14,600 00		5,596	
Lehigh Iron Company,	Allentown,	Lehigh,	200	250,000 00	61,500 00	180,000 00	12,000	
Lehigh Valley Iron Company,	Coplay,	Lehigh,	75	600,000 00	30,000 00	250,000 00	18,000	
Logan Iron and Steel Company,	Huntingdon,	Huntingdon,	170		30,000 00	26,000 00	1,616	56,000 00
Lowry, Eichelberger & Sons,	Barre Furnace,	Huntingdon,	100		19,400 00	9,600 00	1,100	33,000 00
Matilda Furnace,	Mount Union,	Huntingdon,	50		18,250 00	30,000 00	3,000	51,000 00
Meily, J. & R.,	Lebanon,	Lebanon,	25		12,500 00	80,000 00	5,000	100,000 00
Monocacy Furnace Company,	Monocacy Station,	Berks,	30		17,000 00	155,000 00	8,427	
Montgomery Iron Company,	Port Kennedy,	Montgomery,	32	150,000 00				
Neal, W., & Sons,	Bloomsburg,	Columbia,	190	150,000 00	60,000 00	65,000 00	7,721½	135,131 25
Neshannock Iron Company,	New Castle,	Lawrence,	32	150,000 00	17,000 00	215,000 00	12,000	275,000 00
Robesonia Furnaces,	Robesonia Furnaces,	Berks,	62				6,645	125,000 00
Rockhill Iron and Coal Company,	Orbisonia,	Huntingdon,					8,254	134,127 50
Royer, John,	Royer,	Blair,	120	200,000 00	23,000 00	10,000 00	1,600	41,000 00
Saucon, Iron Company,	Hellertown,	Northampton,	16	600,000 00	5,000 00	,500 00		
Shenango Iron Works,	New Castle,	Lawrence,	70		44,363 66	395,613 73	20,538	424,100 48
Shoenberger, Blair & Co,	Pittsburgh,	Allegheny,	85	300,000 00	34,000 00	375,000 00	21,671	525,000 00

BLAST FURNACES.—RECAPITULATION—CONTINUED.

NAMES.	LOCATION.	COUNTY.	Number of employees.	Capital employed in business.	Amount paid annually for wages of employees.	Amount paid annually for materials used in business.	Annual product in tons.	Value of annual product.
Shorb, Stewart & Co.,	Graysville,	Huntingdon,	. . . .	. . . .	. . . .	. . . .	46	
Spearman Iron Company,	Sharpsville,	Mercer,	30	$250,000 00	$20,607 00	$253,328 00	. . . . .	$254 300 00
Stewart Iron Company,	Sharon,	Mercer,	46	300,000 00	26,699 99	189,534 00	9,814	220,915 00
Stewartson Furnace,	Mahoning,	Armstrong,	73	150,000 00	36,000 00	35,000 00	3,300	. . . .
Thomas Iron Company,	Hokendauqua,	Lehigh,	200	2,000,000 00	93,896 00	822,296 00	52,813½	950,643 00
Wampum Furnace Company,	Wampum,	Lawrence,	45	150,000 00	20,000 00	102,000 00	6,000	115,000 00
Warwick Iron Company,	Pottstown,	Montgomery,	73	50,000 00	22,021 00	54,000 00	3,380	57,460 00
Waterman & Beaver,	Danville,	Montour,	239	900,000 00	. . . .	. . . .	12,720	203,520 00
Westerman Iron Company,	Sharon,	Mercer,	64	. . . .	29,493 44	. . . .	17,023	. . . .
Wister Furnace,	Harrisburg,	Dauphin,	35	60,000 00	19,700 00	. . . .	6,546	124,374 00
Totals reported,	. . . .	. . . .	4,034	$10,134,476 65	$1,168,012 10	$3,997,132 21	364.073½	$5,846,783 35

ROLLING MILLS.

ALLEGHENY COUNTY.

Lewis Dalzell & Co.

Pittsburgh, Pa.

Persons employed, 337; amount of capital invested, $600,000; amount paid for wages of employés, $110,000; amount paid for materials used, $200,000; annual production, 8,000 tons; value of annual production, $400,000.

Manufacture bar, boiler, sheet, and tank iron, cold rolled sheet iron, patent dripping and bread pans, and nails.

Pennsylvania Iron Works—Everson, Macrum & Co., Proprietors.

Pittsburgh, Pa.

Persons employed, 165; amount paid annually for wages to employés, $110,000; annual production, 6,200 tons; value of annual production, $300,000.

Merchant, bar, and sheet iron.

Pittsburgh Forge and Iron Company.

Pittsburgh, Pa.

Persons employed, 159; amount of capital invested, $200,000; amount paid for wages of employés, $100,000; amount paid for materials used, $125,000; annual production, 6,000 tons; value of annual production, $360,000.

Manufacture merchant iron, railway splice joints, car axles, and forgings.

Juniata Iron Works—Shoenberger & Co., Proprietors.

Pittsburgh, Pa.

Persons employed, 400; amount of capital invested, $400,000; amount paid for wages of employés, $225,000; amount paid for material used, $325,000; annual production, 12,000 tons; value of annual production, $750,000.

Trade has been rather brisk, but prices very low.

J. Painter & Sons.

Pittsburgh, Pa.

Persons employed, 734; amount of capital invested, $1,500,000; amount paid for wages of employés, $400,000; amount paid for materials used, $850,000; annual production, 21,118 tons; value of annual products, $1,313,200.

These works contain fifty-two single puddling furnaces, fifteen heating furnaces, two 18-inch train rolls, (muck trains,) one 16-inch train roll, one 12-inch train roll, three 10-inch train rolls, six 8-inch train rolls, and other equipments for the working of one hundred tons iron puddled per day. All machinery, furnaces, &c., are covered by fire proof iron buildings. Tenement houses for all employés are owned by the firm. Sole products are hoop and band iron for barrels, pails, cotton ties, hinges, locks, &c.

Star Iron Works, Lindsey & McCutcheon, Proprietors.

Pittsburgh, Pa.

Persons employed, 145; amount of capital invested, $400,000; amount paid for wages of employés, $85,733 30; amount paid for materials used, $255,473; annual production, 6,006 tons; value of annual products, $360,360.

Manufacture hoop and band iron.

Sligo Iron Mills—Phillips, Nimicks & Co., Proprietors.

Pittsburgh, Pa.

Persons employed, 300; amount of capital invested, $900,000; amount paid for wages of employés, $130,000; amount paid for materials used, $250,000; annual production, 5,200 tons; value of annual products, $420,000.

McKeesport Iron Works—W. D. Wood & Co.

Pittsburgh, Pa.

Persons employed, 250; amount of capital invested, $350,000; amount paid for wages of employés, $125,000; annual production, 3,365 tons; value of annual products, $541,425 84.

We make sheet iron exclusively, our patent planished sheet iron being our specialty. Trade rather dull.

Wm. Clark & Co.

Pittsburgh, Pa.

Persons employed, 200; amount of capital invested, $200,000; amount paid for wages of employés, $110,000; amount paid for materials used, $275,000; value of annual products, $425,000.

Manufacture hoop and band iron.

BLAIR COUNTY.

Altoona Iron Company.

Altoona, Blair county, Pa.

Persons employed, 64; amount of capital invested, $10,000; amount paid for wages of employés, $33,694 71; amount paid for material used, $72,416 80; annual production, 2,734 tons; value of annual production, $139,799 97.

Manufacture merchant iron; has a yearly capacity of four thousand tons.

BERKS COUNTY.

Keystone Iron Works.

Peading, Pa.

Persons employed, 80; amount of capital invested, $100,000; amount paid for wages of employés, $36,000; amount paid for materials used, $100,000; annual production, 3,500 tons; value of annual products, $150,000.

Manufacture plate iron and muck bars.

NORTHAMPTON COUNTY.

Lehigh Shovel Works.

Bethlehem, Pa. Thomas and Frank Weiss, Jr., proprietors.

Persons employed, 12; amount of capital invested, $25,000; amount paid for wages of employés, $3,000; amount paid for materials used, $13,000; value of annual products, $20,000.

"Our trade, like all others, has been dull, with low prices and small sales. The outlook is somewhat more favorable, as the orders for export are coming in more freely."

Lehigh Valley Brass Works.

Bethlehem, Pa. B. E. Lehman, proprietor.

Persons employed, 16; amount of capital invested, $30,000; amount paid for wages of employés, $8,000; amount paid for materials used, $15,000; value of annual products, $27,000.

"Owing to the general depression in business, the business done in 1876 amounted to less than one half of that done in more prosperous times. It would, therefore, be wrong to take the results of 1876 as a criterion of what can or should be done."

NORTHUMBERLAND COUNTY.

Murray, Dougal & Co.

Milton, Pa.

Persons employed, 177; amount of capital invested, $150,000; amount paid for wages of employés, $60,165 43; amount paid for materials used, $75,017 98, (more or less material was used from stock on hand;) value of annual products, $159,844 89.

"The largest number of men employed at any one time was four hundred and fifty, and the largest annual production was about $300,000, both of which was in 1873. Since that time the number of men, the amount of wages paid, and the amount of products, have been so irregular as to render it almost impossible to give correct or satisfactory figures. The above is a general average for the year 1876, as near as we can get at it."

George Rohrback & Sons.

Sunbury, Pa.

Persons employed, 5; amount of capital employed, $7,000; amount paid for wages of employés, $1,800; amount paid for materials used, $2,000; value of annual products, $4,500.

PHILADELPHIA COUNTY.

J. P. Morris Company.

Philadelphia, Pa.

Persons employed, 224; amount of capital invested, $350,000; amount paid for wages of employés, $134,471 68; amount paid for material used, $93,000; value of annual products, $306,100.

"Manufacture all kinds of heavy work, such as marine and stationery engines, machinery for blast furnaces, castings of every description, light houses, boilers of all kinds, ice manufacturing machinery, &c."

Henry Disston & Son.

Philadelphia, Pa.

Persons employed, 985; amount of capital invested, $1,500,000; amount paid for wages of employés, $475,000; amount paid for materials used, $450,000; value ofannual products, $1,500,000.

Burnham, Parry, Williams, & Co., Baldwin Locomotive Works.

Philadelphia, Pa.

Persons employed, 1,106; amount of capital invested, $1,400,000; amount paid for wages of employés, $823,000; amount paid for materials used, $1,453,000; value of annual products, $2,400,000.

Wm. and Harvey Rowland.

Frankford, Philadelphia county Pa.

Persons employed, 122; amount of capital invested, $330,000: amount paid for wages of employés, $93,715 68; amount paid for materials used, ——; value of annual products, $365,369 70.

Manufacture elliptic and other carriage springs; re-roll Norway iron; slit Norway nail rods; make different kinds of steel. We have long since concluded that overproduction is the principal cause of depressed trade.

SOMERSET COUNTY.

Thos. H. Paul & Co.

Myersdale, Somerset county, Pa.

Persons employed, 4; amount of capital invested, $4,000; amount paid for wages of employés, $914; amount paid for materials used, $1,500; value of annual products, $4,000.

J. S. Hartzell.

Addison, Somerset county, Pa.

Persons employed, 6; amount of capital invested, $5,000; amount paid for wages of employés, $1,800; amount paid for materials used, $6,000; value of annual products, $10,000.

Manufacture plows, bells, kettles, stoves, and general line of castings used in country.

SUSQUEHANNA COUNTY.

W. S. Mead.

New Milford, Susquehanna county, Pa.

Persons employed, 4; amount of capital invested, $2,000; amount paid for wages of employés, $75; amount paid for materials used $500; value of annual products, $500.

"Business is very dull with me. When times were good, everybody rushed in and did all they could, paid good wages, lived fast, &c., and overstocked the demand for goods. This, I think, is what has made the crash. I will give you my opinion of business prospects for the future. As the surplus of goods is about all used up, when times begin to pick up there will be a great demand for all kinds of goods. As the population is a great deal larger, and as there have been no mechanics made during all these hard times, I think times will be better than ever."

SNYDER COUNTY.

Rohrback & Rudy.

Selinsgrove, Pa.

Persons employed, 2; amount of capital invested, $2,000; amount paid of wages of employés, $900; amount paid for materials used, $300; value of annual product, $4,000.

TIOGA COUNTY.

T. J. Mooers.

Blossburg, Pa.

Persons employed, 4; amount of capital invested, $5,000; amount paid for wages of employés, $1,250; amount paid for materials used, $3,750; value of annual production, $7,000.

"Business dull, sales light. No money in foundry business at present."

James Kinsey.

Lawrenceville, Pa.

Persons employed, 2; amount of capital invested, $5,000; amount paid for wages of employés, $400; amount paid for materials used, $200; value of annual products, $1,100.

UNION COUNTY.

Stayman & Zimmerman.

Mifflinburg, Pa.

Persons employed, 6; amount of capital invested, $8,000; amount paid for wages of employés, $1,804; amount paid for materials used, $1,900.

"Business has been exceedingly dull during the last year, owing to the scarcity of money. There has been no building going on."

James S. Marsh & Co.

Lewisburg, Union county, Pa.

Persons employed, 73; amount of capital employed, $50,000; amount paid for wages of employés, $30,000; amount paid for materials used, $25,000; value of annual products, $62,000. Manufacture reapers and mowers.

WYOMING COUNTY.

Miller & Avery.

Tunkhannock, Wyoming county, Pa.

Persons employed, 8; amount of capital invested, $10,000; amount paid for wages of employés, $1,800; amount paid for materials used, $1,350; value of annual products, $7,000.

"Business brisk at this time; looks good ahead. Our trade is on the increase from year to year."

YORK COUNTY.

Frey, Motter & Co.

York, Pa.

Persons employed, 20; amount of capital invested, $45,000; amount paid for wages of employés, $10,623; amount paid for materials used, $20,000; value of annual products, $24,000.

G. W. Heiges.

Franklintown, Pa.

Persons employed, 7; amount of capital invested, $5,000; amount paid for wages of employés, $2,330; amount paid for materials used, $2,500; value of annual products, $9,000.

"Trade dull, owing to a light crop and low market for agricultural products."

York Manufacturing Company.

York, Pa.

Persons employed, 15; amount of capital invested, $50,000; amount paid for wages of employés, $4,800; amount paid for materials used, $19,000; value of annual products, $28,000.

"This is a stock company conducted by five directors. Our business is manufacturing Turbine wheels, mill gearing, middling purifyers, and washing machines. Trade dull from general depression in business."

Pennsylvania Agricultural Works, A. B. Farquhar, Proprietor.

York, Pa.

Persons employed, 200; amount of capital invested, $200,000; amount paid for wages of employés, 75,000; amount paid for materials used, $125,000; value of annual products, $250,000.

"In regard to trade, would say that mine extends throughout the world. Am shipping now, at this writing, five or six car loads to Africa, via New York. Of course, I find trade dull, much prostrated throughout the world, though reviving somewhat in Peru and several of the South American States. I do a good deal with Cuba, but not one fourth what I should, or would, if the rebellion there was over. I also do a good deal throughout our Southern States, but owing to the wretched political troubles of the past year, trade there has been in an unsatisfactory condition."

MACHINE SHOPS AND FOUNDRIES—RECAPITULATION.

NAME OF OWNER, OR PERSONS OPERATING.	POST OFFICE ADDRESS.	COUNTY.	Value of annual products.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.
C. G. Hussey & Co.,	Pittsburgh,	Allegheny,	$450,000 00	86	$500,000 00	$60,000 00	$260,000
Porter, Bell & Co.,	Pittsburgh,	Allegheny,	114,400 00	100	160,000 00	53,000 00	70,000
Kloman, Park & Co.,	Pittsburgh,	Allegheny,	100,000 00	60	55,000 00	24,000 00	50,000
Anderson & Passavant,	Pittsburgh,	Allegheny,	650,000 00	229	400,000 00	170,000 00	360,000
Keystone Bridge Company,	Pittsburgh,	Allegheny,	1,034,000 00	680	437,500 00	330,000 00	445,000
Hussey, Howe & Co.,	Pittsburgh,	Allegheny,	823,000 00	350	1,000,000 00	245,000 00	360,000
C. West & Co.,	Pittsburgh,	Allegheny,	25,708 00	20	15,000 00	10,685 47	9,500
Atwood & McCaffrey,	Pittsburgh,	Allegheny,	120,354 58	33	110.000 00	17,433 20	
McIntosh, Hemphill & Co.,	Pittsburgh,	Allegheny,	88,319 00	74	125,000 00	36,822 50	39,776
Totten & Co.,	Pittsburgh,	Allegheny,	92,000 00	50	100,000 00	32,000 00	45,000
Hugh M. Bole,	Pittsburgh,	Allegheny,	11,188 57	6	60,000 00	1,842 00	11,144
H. Anshutz & Son,	Pittsburgh,	Allegheny,	32,121 33	26	36,720 93	9,503 36	5,192
De Haven & Co.,	Pittsburgh,	Allegheny,	65,000 00	45	. . . .	25,000 00	20,000
Swick & Dixon,	Pittsburgh,	Allegheny,	2.500 00	2	1,000 00	65 00	5,000
Anderson & Marshall,	Kittanning,	Armstrong,	13,000 00	11	7,000 00	4,000 00	3,000
Frederick Felton,	Everett,	Bedford,	3,700 00	2	2,000 00	975 00	1,475
A. Riley & Lantzer,	Williamsburg,	Blair,	1,800 00	1	2,000 00	312 00	800
McLanahan, Stone & Bayley,	Hollidaysburg,	Blair,	35,955 41	26	70,200 00	11,899 00	14,544
Seyfert, McManus & Co.,	Reading,	Berks,	600,957 64	260	350,000 00	67,771 27	456,706
Beaver Falls Co-operative Foundry Association,	Beaver Falls,	Beaver,	33,000 00	30	15,000 00	15,100 00	11.828
John Thorniley,	New Brighton,	Beaver,	3,000 00	3	10,000 00	586 00	1,500
Merrick & Co.,	New Brighton,	Beaver,	8.000 00	7	25,000 00	1,777 98	4,154
Olive Stove Works,	Rochester,	Beaver,	16,500 00	21	5,000 00	6,000 00	6,500
William P. Duncan & Co.,	Bellefonte,	Centre,	50,000 00	32			
C. Ridgway,	Coatesville,	Chester,	11,000 00	10	6,000 00	4,000 00	5,000
Speakman, Miles & Co.,	West Chester,	Chester,	5,960 00	11	10,000 00	5,612 00	1,206
Evans & Baird,	West Chester,	Chester,	25,000 00	18	16,000 00	8,000 00	10,000
Lewis S. Milligan,	Cupola,	Chester,	900 00	1	1,500 00	450 00	600
The Jackson & Woodin Manufacturing Company,	Berwick,	Columbia,	561,368 00	296	200,000 00	85,692 00	447,765
I. & H. R. Bower,	Berwick,	Columbia,	5,000 00	7	14,000 00	2,400 00	2,000
Harman & Hassert,	Bloomsburg,	Columbia,	4,000 00	4	5,000 00	1,637 00	1,500
Samuel J. Frederick,	Catawissa,	Columbia,	4,000 00	3	3,000 00	1,000 00	570
Albright & Stroh,	Mauch Chunk,	Carbon,	35,875 00	35	. . . .	16,150 00	14,660
Johnstown Mechanical Works,	Johnstown,	Cambria,	15,000 00	17	50,000 00	9,685 56	6,200
Hyde, Kline & Co.,	Ridgway,	Elk,	6,566 82	6	10,000 00	2,760 63	3,500

MACHINE SHOPS AND FOUNDERIES—RECAPITULATION—*Continued.*

NAME OF OWNER, OR PERSONS OPERATING.	POST OFFICE ADDRESS.	COUNTY.	Value of annual products.	Whole number of persons employed.	Capital employed in business.	Amount paid annually for wages.	Amount paid for materials used in business.
Geiser Manufacturing Company,	Waynesboro',	Franklin,	$115,000 00	90	$110,000 00	$30,000 00	$50,000
Bain & Cromer,	Fort Littleton,	Fulton,	4,000 00	2	2,000 00	600 00	1,000
C. W. Bower & Sons,	Waynesburg,	Greene,	2,000 00	4	3.000 00	400 00	500
M. H. Hunnel,	Waynesburg,	Greene,	2,000 00	2	2,000 00	500 00	600
Vesuvius Manufacturing Company,	Rice's Landing,	Greene,	9.000 00	6	20,000 00	3,800 00	2,500
Cole & Heilman,	Allentown,	Lehigh,	25,000 00	27	28,000 00	6,896 86	23.000
Barber & Son,	Allentown,	Lehigh,	29,693 52	31	86,000 00	13,086 44	11,540
R. R. Frear,	Wyoming,	Luzerne,	2,500 00	2	2,000 00	500 00	400
Samuel Benner,	Conyngham,	Luzerne,	3,300 00	5	2,500 00	1,350 00	786
The Scranton Stove and Manufacturing Company,	Scranton,	Luzerne,	40.000 00	40	60.000 00	13.708 16	10,300
J. C. Hayden & Co.,	Jeansville,	Luzerne,	57,930 16	40	50.000 00	23,588 63	47,497
The Union Stove and Manufacturing Company,	Pittston,	Luzerne,	50,000 00	26	40,000 00	14.000 00	15.000
James M. Everhard,	Scranton,	Luzerne,	17,017 48	11	28.000 00	4,000 00	4,707
David Clark & Co.,	Hazleton,	Luzerne,	544,380 26	234	190,000 00	134,612 91	245,947
Wisner & Strong,	Pittston,	Luzerne,	40,000 00	20	60.000 00	5,000 00	20,000
Vulcan Iron Works,	Wilkes-Barre,	Luzerne,	115.334 83	64	180.950 00	38,166 85	50,501
Dickson Manufacturing Company,	Scranton,	Luzerne,	518,656 00	381	800,000 00	261,739 00	233,115
Engel, Boyd & Engel,	Mill Hollow,	Luzerne,	2,500 00	2	2,200 00	956 00	1,240
Riley & Maitland,	Williamsport,	Lycoming,	15,972 17	16	31,567 42	8,758 35	9,569
Filbert Street Forging and Machine Works,	Williamsport,	Lycoming,	5,500 00	7	9,000 00	3,840 00	1,200
W. R. Wilson & Co.,	Jersey Shore,	Lycoming,	7,607 94	10	20,000 00	3,094 00	4,000
Snyder Brothers,	Williamsport,	Lycoming,	39,168 04	23	100,000 00	12,041 64	20,304
Philip A. Moltz,	Williamsport,	Lycoming,	. . . .	5	15,000 00	750 00	3,000
E. & J. Light,	Lebanon,	Lebanon,	2,500 00	11	16,000 00	2,500 00	4,000
William T. Bates & Son,	Conshohocken,	Montgomery,	. . . .	27	40.000 00	9,970 56	8,150
Ellis & Wills,	Pottstown,	Montgomery,	10,000 00	10	10,000 00	3,000 00	4.000
Ellis' Keystone Agricultural Works,	Pottstown,	Montgomery,	8,500 00	8	20,000 00	3,000 00	2,900
A. W. Washburn,	Greenville,	Mercer,	4,500 00	4	8,000 00	1,000 00	1.500
W. S. Eberman & Sons,	Sandy Lake,	Mercer,	11,000 00	10	15.000 00	3,000 00	4,000
Hery Selick,	Granville,	Mifflin,	800 00	4	2,500 00	300 00	200
William B. Harman,	Belleville,	Mifflin,	500 00	2	250 00	200 00	300
J. W. Pincin & Son,	McVeytown,	Mifflin,	4,500 00	6	4,000 00	2,900 00	1,200
Lehigh Shovel Works,	Bethlehem,	Northampton,	20.000 00	12	25,000 00	3,000 00	13.000
Lehigh Valley Brass Works,	Bethlehem,	Northampton,	27,000 00	16	30,000 00	8,000 00	15,000
Murray, Dougal & Co.,	Milton,	Northumberland,	159,844 89	177	150.000 00	60,165 43	75,017

George Rohrback & Sons,	Sunbury,	Northumberland,	4,500 00	5	7,000 00	1,800 00	2,000
J. P. Morris Co.,	Philadelphia,	Philadelphia,	306,000 00	224	350,000 00	134,471 68	93,000
Henry Disston & Sons,	Philadelphia,	Philadelphia,	1,500,000 00	985	1,500,000 00	475,000 00	450,000
Burnham, Parry, Williams & Co.,	Philadelphia,	Philadelphia,	2,400,000 00	1,106	1,400,000 00	823,000 00	1,453,000
William & Harvey Rowland,	Philadelphia,	Philadelphia,	365,369 70	122	330,000 00	93,715 68	
Thomas H. Paul & Co.,	Myersdale,	Somerset,	4,000 00	4	4,000 00	914 00	1,500
J. S. Hartzell,	Addison,	Somerset,	10,000 00	6	5,000 00	1,800 00	6,000
W. S. Mead,	New Milford,	Susquehanna,	500 00	4	2,000 00	75 00	500
Rohrback & Rudy,	Selins Grove,	Snyder,	4,000 00	2	2,000 00	900 00	300
T. J. Mooers,	Blossburg,	Tioga,	7,000 00	4	5,000 00	1,250 00	3,750
James Kinsey,	Lawrenceville,	Tioga,	1,100 00	2	5,000 00	400 00	200
James S. Marsh & Co.,	Lewisburg,	Union,	62,000 00	73	50,000 00	30,000 00	25,000
Miller & Avery,	Tunkhannock,	Wyoming,	7,000 00	8	10,000 00	1,800 00	1,350
Frey, Motter & Co.,	York,	York,	24,000 00	20	45,000 00	10,623 00	20,000
G. W. Heiges,	Franklintown,	York,	9,000 00	7	5,000 00	2,330 00	2,500
York Manufacturing Company,	York,	York,	28,000 00	15	50,000 00	4,800 00	19,000
Pennsylvania Agricultural Works,	York,	York,	250,000 00	200	200,000 00	75,000 00	125,000
Totals,			$11,927,349 34	6,684	$9,934,888 35	$3,597,464 16	$5,763,193

GLASS WORKS.

Benners, H. B.

Philadelphia, Pa.

Persons employed, 90; capital employed in business, $118,000; amount paid annually for wages of employés, $29,696; amount paid for materials used in business, $18,538; value of annual product, $71,338.

Burgin & Sons.

Philadelphia, Pa.

Persons employed, 142; capital employed in business, $38,600; amount paid annually for wages of employés, $38,018 55; amount paid for materials used in business, $37,238 55; value of annual product not stated.

Bryce, Walker & Co.

Pittsburgh, Allegheny county, Pa.

Persons employed, 130; capital employed in business, $200,000; amount paid annually for wages of employés, $85,000; amount paid for materials used in business, $55,000; value of annual product, $150,000.

REMARKS.—Manufacture lamp, table, and perfumery glassware.

The past twelve months has been unusually dull. Trade slow, and bad debts unusually heavy. We have two 11 pot and one 9 pot furnaces, of which but one, (the 11 pot,) has been in operation the past year, as we found it sufficient to produce all the goods our trade were in want of. The figures given are for the operations of past year, 1876. Since January, there has been a gradual falling off in amount of business, and at present writing, the trade is in about the same condition as to amount of business being done as in 1861, owing, we think, to the production being in excess of demand. As in other branches of manufacturing, the glass trade has been overdone, and we are now having the results of the inflated era previous to 1873.

Campbell, Jones & Co.

Pittsburgh, Allegheny county, Pa.

Persons employed, 100; capital employed in business, $56,000; amount paid annually for wages of employés, $30,000; amount paid for materials used in business, $20,000; value of annual product, $52,000.

Crystal Glass Company

Pittsburgh, Allegheny county, Pa.

Persons employed, 110; capital employed in business, $100,000; amount paid for wages of employés, $24,082 96; amount paid for materials used in business, $7,925; value of annual product, $50,218 50.

REMARKS.—This factory was in operation only part of the year. When running full time its annual capacity is $200,000.

Doyle & Co.

Pittsburgh, Allegheny county, Pa.

Persons employed, 90; capital employed in business, $45,000; amount paid annually for wages of employés, $38,000; amount paid for materials used in business, $30,500; value of annual product, $72,000.

Evans, Sell & Co.

Pittsburgh, Allegheny county, Pa.

Persons employed, 120; capital employed in business, $70,000; amount paid annually for wages of emyloyés, $50,000; amount paid for materials used in business, $12,000; value of annual product, $120,000.

Excelsior Flint Glass Company.

Pittsburgh, Allegheny county, Pa.

Persons employed, 130; capital employed in business, $75,000; amount paid annually for wages of employés, $65,000; amount paid for materials used in business, $20,000; value of annual product, $90,000.

Hamilton, W. H. & Co.

Pittsburgh, Allegheny county, Pa.

Persons employed, 171; capital employed in business, $143,000; amount paid annually for wages of employés, $56,619 67: amount paid for materials used in business, $66,747 46; value of annual product, $147,205 26.

Hirsch, Ely & Co.

Blossburg, Tioga county, Pa.

Persons employed, 50; capital employed in business, $35,000; amount paid annually for wages of employés, $30,000: amount paid for materials used in business, $40,000; value of annual product, $80,000.

Challimor, Hogan & Co.

Pittsburgh, (South Side,) Allegheny county, Pa.

Persons employed, 118; capital employed in business, $98,000; amount paid annually for wages of employés, $62,400; amount paid for materials used in business, $140,000; value of annual products, $116,000.

REMARKS.—Factory is located corner Eighth and Washington streets, South Side, and covers ten lots, 24 x 100, buildings and yard. We operate one ten pot furnace, and manufacture, principally, lamp chimnies, with some candy jars, jelly tumblers, and silvered reflectors. We ship our goods to all parts of the United States and Canada. The factory proper, containing one ten pot furnace, is about 62 x 70 feet. The sand used in the manufacture of our glass comes principally from Huntingdon county, Pennsylvania, of which we use from four hundred and eighty to five hundred tons annually. We manufacture about 48,000 packages glassware annually. We purchase our pots or crucibles from a factory which makes a specialty of manufacturing them. We have no apprentices in our establishment; the boys learn the business the same as if bound, but quit when they think proper. Our other out buildings, viz: Packing room, mixing room, silvering room, office and store rooms, covers about half more than factory proper. All frame buildings.

Keystone Flint Glass Manufacturing Company.

Pittsburgh, Allegheny county, Pa.

Persons employed, 150; capital employed in business, $50,000; amount paid annually for wages of employés, $45,000; amount paid for materials used in business, $40,000; value of annual product, $115,000.

REMARKS.—In operation two hundred and twenty-five days; generally run eleven months in the year, with a corresponding addition in expenses and production. Manufacture only lamp chimnies.

Lindsay, James & Co.

Pittsburgh, Allegheny county, Pa.

Persons employed, 35; capital employed in business, $35,000; amount paid annually for wages of employés, $12,000; amount paid for materials used in business, $7,000; value of annual product, $35,000.

REMARKS—Make the pure lead glass chimnies, and silvered glassware. The demand for such goods has fallen off wonderfully in the last three years, and, in consequence, we are only running our works to one fourth of their capacity.

McKee, S. & Co.

Pittsburgh, Allegheny county, Pa.

Persons employed, 190; capital employed in business, $200,000; amount paid annually for wages of employés, $120,000; amount paid for materials used in business, $80,000; value of annual product, $225,000.

REMARKS.—Manufacture window glass, and black and green drug ware.

O'Hara Glass Company, (limited.)

Pittsburgh, Allegheny county, Pa.

Persons employed, 143; capital employed in business, $92,500; amount paid annually for wages of employés, $78,824; amount paid for materials used in business, $24,445; value of annual product, $170,238.

REMARKS.—Our product is exclusively pressed glass ware; while some manufacture both pressed and blown goods, and others exclusively blown. Our ware is called flint to distinguish it from window, bottle, and vial, generally called green glass

Plunkett & Co.

Pittsburgh, Allegheny county.

Persons employed, 25; capital employed in business, $100,000; amount paid annually for wages of employés, $75,000; amount paid for materials used in business, $10,000; value of annual product, $125,000.

REMARKS.—One 10-pot furnace. Manufacture lamp chimnies and jars. Factory building of frame.

Richards & Hartley Flint Glass Company.

Pittsburgh, Allegheny county.

Persons employed, 120; capital employed in business, $90,000; amount paid annually for wages of employés, $45,000; amount paid for materials used in business, $25,000; value of annual product, $100,000.

REMARKS.—Character of goods made are "flint" or "crystal" glassware, commonly called "lime" glassware, table glassware, goblets, bar fixtures, lamps, and perfumery ware. In ordinary times, the works are run eleven months in the year, usually stopping in July to make necessary repairs, turning out, in that time, manufactured ware to the amount of about $150,000. During the past year, however, owing to depression of business, the factory has been in operation but about nine months. When in full blast, the *weekly* pay-roll amounts to $1,100, the works running from twelve o'clock Sunday night to noon on Saturday, two sets of hands being employed, working alternate "turns." The weekly consumption of material is about: Coal and coke, 2,000 bushels; soda ash, 5 tons; sand, 12 tons; lime, 10 barrels; nitrate soda, 1½ tons; oat straw, 4 tons.

Schmertz, Robert C., & Co.

Pittsburgh, Allegheny county.

Persons employed, 120; capital employed in business, $125,000; amount paid annually for wages of employés, $85,671; amount paid for materials used in business, $24,842; value of annual product, $138,348.

Tibby Brothers.

Pittsburgh, Allegheny county.

Persons employed, 160; capital employed in business, $120,000; amount paid annually for wages of employés, $65,000; amount paid for materials used in business, $67,000; value of annual products, $140,000.

COTTON MILLS.

Barton, James.

Chester, Delaware county.

Persons employed, 38; capital employed in business, $50,000; amount paid annually for wages of employés, $10,400.

REMARKS.—This mill was built for a cotton spinning and weaving factory, in 1866, by Barton & Cotton. At the expiration of the term of partnership, January 1, 1876, Mr. Cotton retired, and James Barton, junior, continued the business. In June, 1876, a fire occurred, damaging the property seriously and crippling the proprietor. The building was repaired as soon as possible, and the business continued by James Barton. On account of the destruction of most of the books and papers by the fire, many of the answers to questions above are estimated, as near the truth as possible. There are fifty-five looms in the mill not in operation last year. There are in operation 2,760 mule spindles, and 1,836 ring frame spindles.

Birmingham, Watson & Co., Anchor Cotton Mills.

Pittsburgh, Allegheny county.

Persons employed, 205; capital employed in business, $100,000; amount paid annually for wages of employés, $31,285 95.

REMARKS.—Manufacture brown sheetings.

Blakeley, A., & Sons.

Chester, Delaware county.

Persons employed, 124; capital employed in business, $81,771 25; amount paid annually for wages of employés, $36,000.

Crozer, J. P.'s, Sons.

Upland, Delaware county.

Persons employed, 375; capital employed in business, $500,000; amount paid annually for wages of employés, $119,000.

REMARKS.—The firm runs two mills, one operated entirely by steam, and the other partly by steam and partly by water. Manufacture cotton exclusively, with no admixture or imitation of wool. Our goods are tickings, checks, plaids, cheviots, &c. Mills run on short time throughout nearly all of the year.

Crozer, Samuel A.

Upland, Delaware county.

Persons employed, 344; capital employed in business, $500,000; amount paid annually for wages of employés, $127,634.

Eddystone Manufacturing Company, (Limited.)

Chester, Delaware county.

Persons employed, 418; capital employed in business, $1,000,000; amount paid annually for wages of employés, $153,438.

REMARKS.—Print works, for the exclusive printing of cotton cloths.

Harrisburg Cotton Mill Company.

Harrisburg, Dauphin county.

Persons employed, 251; capital employed in business, $250,000; amount paid annually for wages of employés, $60,000.

REMARKS.—Manufacture heavy brown sheetings and shirtings. Production annually, 3,687,000 yards. Cotton used, 2,800 bales. Wages to employés are rated by the hour or piece.

Hyde, E.'s, Sons, Franklin Cotton Mills.

Allegheny City, Allegheny county.

Persons employed, 75; amount paid annually for wages of employés, $13,000.

REMARKS.—Manufacture cotton yarn, candle wick, and cotton twines.

Kelly, D. & Co.

Clifton Heights, Delaware county, Pa.

Persons employed, 100; capital employed in business, $150,000; amount paid annually for wages of employés, $40,000.

Lees, Daniel.

Chester, Delaware county, Pa.

Persons employed, 21.

Lewis, J. M. & D.

Swarthmore, Delaware county, Pa.

Persons employed, 90; capital employed in business, $40,000; amount paid annually for wages of employés, $32,000.

Patterson, R. & Co., Broad Street Mills.

Chester, Delaware county, Pa.

Persons employed, 85; capital employed in business, $150,000; amount paid annually for wages of employés, $23,000.

REMARKS.—In this mill we make tickings, sheetings, &c.; also, cotton yarns for other weavers, ranging in numbers from 6's and 20's. We have, in this mill, over six thousand spindles, and but forty-six looms; we use about ten thousand pounds of cotton a week. The motive power is a "Corliss" steam engine of one hundred horse-power, (cylinder 18 inches x 48 inches,) consuming about five hundred and fifty tons anthracite pea coal per annum.

Patterson, R. & Co., Patterson Mills.

Chester, Delaware county, Pa.

Persons employed, 280; capital employed in business, $350,000; amount paid annually for wages of employés, $75,000.

REMARKS.—In this establishment there is now running over (14,000) fourteen thousand spindles, with which "and the accompanying preparations" we consume about twenty thousand pounds of cotton per week, and produce from this about seventeen thousand five hundred pounds of yarn, which is woven in three hundred looms, into drillings and sheetings, the result of which is, the production of from seventy-five thousand and eighty thousand yards per week. This mill is driven by steam, and requires over (300) three hundred horse-power when in full operation, consuming about fifteen hundred tons of anthracite pea coal per annum. The mill is situated on the P. W. & B. R. R. and Penn street, Chester.

Riddle, Samuel & Son.

Glen Riddle, Delaware county, Pa.

Persons employed, 300; amount paid annually for wages of employés, $72,000.

Roberts, Charles.

Chester, Delaware county, Pa.

Persons employed, 60; capital employed in business, $125,000; amount paid annually for wages of employés, $18,500.

Simpson, Wm. & Sons.

Norristown, Montgomery county, Pa.

Persons employed, 152; capital employed in business, $155,000; amount paid annually for wages of employés, $40,800.

REMARKS.—Manufacture exclusively 64 x 64 print cloths.

Trainer, D. & Sons.

Linwood, Delaware county, Pa.

Persons employed, 202; capital employed in business, $400,000; amount paid annually for wages of employés, $61,244 39.

REMARKS.—Our manufactures are different from any in the State, from the fact that we make very heavy, fine quality of goods. "Bed tickings," a portion of them "double width," something entirely new to the trade. Then in two of the mills, we spin as high as 60's thread, being finer than any other concern this side of New England. We consider that our manufactures are as good as the best, in the old or new world. We have exported yarns to Germany, and, at this present writing, are preparing a shipment for Japan

Wolfenden Shore & Co.

Cardington, Delaware county, Pa.

Persons employed, 180; capital employed in business, $200,000; amount paid annually for wages of employés, $57,000.

REMARKS.—Our establishment manufactures cotton and wool goods, mixed and cotton yarns,

WOOLEN MILLS.

Bancroft, Samuel, Todmorton Mills.

Media, Delaware county, Pa.

Value of annual product, $200,000.

Gartside, John.

Chester, Delaware county, Pa.

Persons employed, 40 ; capital employed in business, $25,000; amount paid annually for wages of employés, $13,500; value of annual product, $30,500.

Remarks.—Manufacture woolen cassimeres, flannels, &c.

Holt, O & Y,

Oakland, Delaware county, Pa.

Persons employed, 35; capital employed in business, $25,000; amount paid annually for wages of employés, $9,000.

Ledward, J. & Sons.

Chester, Delaware county, Pa.

Persons employed, 113; capital employed in business, $100,000; amount paid annually for wages of employés, $41,600; value of annual product, $130,000.

Remarks.—The mills are situated on Ridley Creek, in the North ward, of the city of Chester. We manufacture doeskins and jeans made from cotton and wool. No stopping, except for repairs and holidays; employés sober, intelligent, and attentive to work, seldom losing any time.

Lees, Daniel.

Chester, Delaware county, Pa.

Persons employed, 10.

Lilley & Son.

Chester, Delaware county, Pa.

Persons employed, 60; capital employed in business, $35,000; amonnt paid annually for wages of employés, $28,000; value of annual product, $100,000.

Remarks.—Manufacture cotton and woolen jeans. The mills run sixty hours per week.

Maxson, John.

Chester, Delaware county.

Persons employed, 43; capital employed in business, $30,000; amount paid annually for wages of employés, $16,400; value of annual product, $68,785.

Platt, A. & Bro.

Manayunk, Philadelphia.

Persons employed, 34; capital employed in business, $50,000; amount paid annually for wages of employés, $15,000.

Rice, Wm. L.

Trucksville, Luzerne county, Pa.

Persons employed, 4; capital employed in business, $1,000; value of annual product, $3,000.

REMARKS.—We have one double roll machine for country work, and a small set of machines for manufacturing. We make satinet, flannels, common all wool cloths, and stocking yarn.

Shaw & Esrey, Powhattan Mills.

Chester, Delaware county, Pa.

Persons employed, 197; capital employed in business, $200,000; amount paid annually for wages of employés, $73,999 75; value of annual product, $281,172 71.

Shimer, Pretz & Co.

Allentown, Lehigh county, Pa.

Persons employed, 80; capital employed in business, $150,000; amount paid annually for wages of employés, $15,000; value of annual product, $75,000.

Shoemaker's, J. C., Sons.

Wyoming, Luzerne county, Pa.

Persons employed, 8; capital employed in business, $10,000; amount paid annually for wages of employés, $1,300; value of annual product, $11,000.

REMARKS.—The past year has been an unusually severe one for manufacturers. The price of wool has been too high in proportion to price received for goods, while the utter prostration of the coal business in this section has made matters still worse. As a consequence, we have worked fewer days than ever before, and with less number of hands. Ours is a water power, and we generally work about nine months per year.

Stadon, W. & Co.

Williamsport, Lycoming county, Pa.

Persons employed, 31; capital employed in business, $80,000; amount paid annually for wages of employés, $15,000; value of annual product, $40,000.

Remarks.—The mill building is a three story brick, with basement, one hundred feet long, forty feet wide, with an L 60 feet. Power is produced by a thirty horse-power engine. Goods manufactured: Cassimeres, tweeds, flannels, blankets, stocking yarns, &c., &c.

Youngman, Caswell & Co., "Nippenose Woolen Mills."

Antes Fort, Lycoming county, Pa.

Persons employed, 40; capital employed in business, $150,000; amount paid annually for wages of employés, $20,000; value of annual product, $150,000.

Remarks.—The mill building is a four story stone structure; propelled by water of Antes creek, which never freezes in winter, being the outlet of a spring larger than the Bellefonte spring. Head and fall at the factory, twenty-seven feet; size of wheel, nineteen feet six inches high, twelve feet wide. Factory erected in 1867–8, at cost of $135,000, including store-rooms and water fixtures.

RAILROAD—LABOR REPORT.

Allegheny Valley Railroad—Pittsburgh, Pa.

	Men.	Pay per day.	Pay per hour—cents.	Women.	Average hours worked per day.	Pay of men per month.	Pay of women per month.	Days worked in the year.
President,	1	$19 25	. . . .	. .	8	$500 00	. . . .	310
Vice President,	1	16 05	. . . .	. .	8	416 67	. . . .	310
Chief Engineer,	1	6 40	. . . .	. .	8	166 66	. . . .	310
General Ticket Agent,	1	4 80	. . . .	. .	8	125 00	. . . .	310
General Superintendent,	1	8 05	. . . .	. .	8	208 33	. . . .	310
General Master Mechanic,	1	6 40	. . . .	. .	8	166 66	. . . .	310
General Purchasing Agent,	1	6 40	. .	. .	8	166 66	. . . .	310
Directors,	10							
Treasurer,	1	9 60	. . . .	. .	8	250 00	. . . .	310
Paymaster,	1	5 75	. . . .	. .	8	150 00	. . . .	310
Division Superintendent,	2	10 25	. . . .	. .	8	266 66	. . . .	310
Local Engineers,	3	5 45	. . . .	. .	8	142 22	. . . .	310
Traveling Engineer,	1	3 85	. . . .	. .	8	100 00	. . . .	310
Chief Clerk of Motive Power,	1	3 20	. . . .	. .	8	83 33	. . . .	310
Road Foremen,	5	3 45	. . . .	. .	8	90 00	. . . .	310
Chief Clerk Maintenance Way,	1	3 45	. . . .	. .	8	90 00	. . . .	310
Clerks,	88	2 15	. . . .	. .	8	56 30	. . . .	310
Chief Telegraph Operator,	1	4 80	. . . .	. .	8	125 00	. . . .	310
Telegraph Operators,	34	. . . .	. . . .	2	. . .	48 43	$45 25	
Freight Agents,	4	. . . .	. . . .	. .	. . .	93 37		
Ticket Agents,	5	. . . .	. . . .	. .	. . .	50 53		
Freight and Ticket Agents,	33	. . . .	. . . .	. .	. . .	56 54		
Train Dispatchers,	6	. . . .	. . . .	. .	. . .	108 75		
Locomotive Drivers,	87	3 97						
Conductors, (Passenger,)	17	. . . .	. . . .	. .	. . .	88 33		
Conductors, (Freight,)	54	2 60						
Brakemen,	210	2 10						
Firemen,	111	1 96⅔						
Watchmen,	116	. . . .	. . . .	. .	. . .	35 83		
Track Foremen,	83	. . . .	. . . .	. .	. .	45 00		
Trackmen,	702	99						
Baggage Masters,	13	. . . .	. . . .	. .	. . .	44 50		
Carpenters,	97	. . . .	22					
Blacksmiths,	38	. . . .	22					
Machinists,	61	. . . .	18.9					
Boiler Makers,	19	. . . .	15.9					
Tinners,	8	. . . .	17⅔					
Coppersmiths,	3	. . . .	22½					
Common Laborers,	11	. . . .	11					
Painters,	14	. . . .	20					

A. T. ROWAND,
Auditor.

The Erie Railway Company, P. O. Box 839, New York City.

	Men.	Pay per day.	Boys.	Pay per day.	Women.	Pay per day.	Average hours worked per day.	Pay of men per month.	Pay of women per month.	Pay of boys per month.	Hours worked per day.	Days worked in the year.
Clerks,	11						10	$54 90			10	365
Telegraph Operators,	7						12	52 80			12	365
Ticket Agents,	2						10	81 50			15	365
Depot Masters,	11						10	56 00			10	365
Train Masters,	1						12	90 00			12	365
Train Dispatchers,	2						10	40 00			10	365
Locomotive Drivers,	2	$4 00										
Conductors, (Passenger,)	1	3 00										
Brakemen,	1	2 00										
Firemen,	2	2 36										
Watchmen,	56	1 25					10				10	365
Track Foremen,	15						10	51 00			10	365
Trackmen,	92	1 25					10				10	313
Baggage Masters,	7						10	46 36			10	365
Car Builders,	16	1 80					10					
Blacksmiths,	1	2 00					10					
Machinists,	1	1 40					10					
Common Laborers,	2 5	1 45					10 10	40 00				365 313
Switch Tenders,	6 21	2 05					12 10	48 75				365
Station Fireman,	1	2 00					10					230
Telegraph Messengers,			2							$15 00	10	365
House Cleaner,					1		5		$15 00		5	365
Night Caller,			1				10			22 50	10	365
Master Mechanics,	1							225 00			10	308
Draughtsmen,	2							130 00 65 00			10	308
Clerks,	3							1 112 50 2 75 00			10	308
Time Keepers,	1							70 00			10	308
Check Keepers,	2	1 50					10				10	308
General Foremen,	1							150 00			10	308
Department Foremen,	10	3 10									10	308
Machinists,	114	2 50					8				10	308
Machinists' Apprentices,			20	1 30			8					308
Machinists' Helpers,	10	1 70					8					308
Blacksmiths,	18	2 40					8					308
Blacksmiths' Apprentices,			4	1 60			8					308
Blacksmiths' Helpers,	27	1 50					8					308
Furnacemen,	4	3 90					8					308
Furnacemen's Helpers,	17	1 90	4	80			8					308
Boiler Makers,	10	2 60					8					308
Boiler Makers' Apprentices,			5	1 60			8					308
Boiler Makers' Helpers,	9	1 60					8					308
Spring Makers,	1	2 70					8					308
Spring Makers' Helpers,	1	1 60					8					308
Iron Moulders,	26	2 50					8					308
Brass Moulders,	2	2 50					8					308
Trimmers and Cleaners of Castings, Foundry Helpers,	15	1 60					8					308
Coppersmiths,	3	2 60					8					308
Tinsmiths,	2	2 60					8					308
Copper & Tinsmiths' Helpers,	2	1 50					8					308
Stationary Engineers,	3	2 30					10					308
Stationary Firemen,	3	1 70					10					308
General Laborers,	38	1 50			1	*2 00	8					308
Oilmen—Machinery,	1	2 00					8					308
Watchmen,	8	1 90					10					365
Engine Carpenters,	12	2 30					8					308
Painters,	4	2 50					8					308
Passenger Car Repairers, Freight Car Repairers,	6	1 50					8					308
Truck and Box Repairers,	10	1 90					8					308
Car Inspectors,	5	1 50					12					365
Car Sweepers and Cleaners,	1	1 40					8					313
Iron Moulders' Apprentices,			3	1 50			8					308
Tending Boilers for Heating,	2	2 00					12					182
Masons,	1	2 00					8					308
Gas Makers,	2	2 20					12					365

The Erie Railway Company—CONTINUED.

	Men.	Pay per day.	Boys.	Pay per day.	Women,	Pay per day.	Average hours worked per day.	Pay of men per month.	Pay of women per month.	Pay of boys per month.	Hours worked per day.	Days worked in the year.
Store Keepers,	2							$75 00 55 00			10	308
Night Foreman,	1	$3 00					11					365
Engineers, Switching,	6	3 24					12					365
Clerks in Supply Dep't,	1							70 00			10	313
Firemen, Switching.	6	2 24					12					365
Wipers,	21	1 30					8					365
Taking care engines,	3	2 40					10					365
Boiler Cleaners,	1	1 80					8					313
Sand Dryers,	1	1 40					8					308
Firing up engines,	2	1 50					10					365
Callers,	2	1 50					10					365
Sweepers,	2	1 50					10					313
Cleaning ash-pits,	3	1 50					10					313
Turn-table men,	4	1 50					11					365
Wood'g & coaling up engines,	8	1 50					10					365
Waste and Oil Distributor,	1	1 60					10					365
Steam Fitters,	2	2 40					8					308
Pattern Makers,	5	2 90					8					308
Pattern Makers' App's,			2	$1 40			8					308
Pattern Makers' Helper,	1	1 50					8					308
	449	....	38	...	1							

* Days worked in the year, 52.

NOTE.—Rate of pay per day is based on ten hours as a day's work.

A. R. MACDONOUGH,
Secretary.

May 16, 1877.

CHARACTERISTICS OF ROAD.—Length of line of road laid in Pennsylvania, 42.05 miles; gauge of road, 6 feet; weight of rail per yard—steel, 60 to 67 pounds; steel top, 67½ pounds; iron, 56 to 70 pounds. Track laid on oak and hemlock ties, filled in with gravel and broken stone.

The foregoing return, together with the appended half sheet, includes the employés specially engaged upon that part of the Erie railway which lies in the State of Pennsylvania, being about one eleventh of its whole length.

A. R. MACDONOUGH,
Secretary.

Atlantic and Great Western—Meadville, Pa.

	Men.	Pay per day.	Boys.	Pay per day.	Average hours worked per day.	Pay of men per month.	Pay of women per month.	Pay of boys per month.
General Master Mechanic,	1	$8 65	. .	. . .	8	$225 00		
General Car Builder,	1	8 65	. .	. . .	8	225 00		
General Purchasing Agent,	1	8 01	. .	. . .	8	208 33		
Auditor,	1	14 42	. .	. . .	8	375 00		
Treasurer,	1	10 10	. .	. . .	8	262 50		
Pay Master,	1	7 21	. .	. . .	8	187 50		
Division Superintendents,	2	6 49	. .	. . .	8	168 75		
Local Engineers,	1	4 75	. .	. . .	8	123 50		
Master Mechanicsof Shops,	2	4 75	. .	. . .	8	123 50		
Foremen of Shops,	10	3 22	. .	. . .	8	83 72		
Road Foreman,	3	3 37½	. .	. . .	10	87 75		
Ch'f Cl'k Maintenance Way,	1	3 50	. .	. . .	8	91 00		
Telegraph Operators,	26	1 80	. .	. . .	12	46 80		
Ticket and Freight Agents,	22	1 89	. .	. . .	12	49 14		
Ticket Agents,	4	2 64	. .	. . .	12	68 64		
Freight Agents,	4	3 77	. .	. . .	12	98 82		
Depot Masters,	3	1 18	. .	. . .	12	30 68		
Train Dispatchers,	6	4 07	. .	. . .	8	105 82		
Engine Dispatchers,	2	3 25	. .	. . .	12	84 50		
Locomotive Drivers,	78	3 79	. .	. . .	8	98 54		
Conductors, (Passenger,)	9	3 66	. .	. . .	10	95 16		
Conductors, (Freight,)	48	2 77	. .	. . .	10	72 02		
Brakemen,	159	1 76	. .	. . .	10	45 75		
Firemen,	81	1 92	. .	. . .	8	49 92		
Watchmen,	14	1 52	. .	. . .	12	39 52		
Track Foremen,	29	1 80	. .	. . .	12	46 80		
Trackmen,	140	1 15	. .	. . .	12	29 90		
Baggage Masters,	9	1 62	. .	. . .	10	42 12		
Bridge Builders,	9	3 00	. .	. . .	8	78 00		
Carpenters,	4	2 42	. .	. . .	8	62 92		
Car Builders,	43	1 91	. .	. . .	8	49 66		
Blacksmiths,	48	1 97	. .	. . .	8	51 22		
Machinists,	76	2 20	5	$1 10	8	57 20	8	$28 60
Boiler Makers,	26	1 88	4	1 03	8	48 88	8	26 78
Tinners,	2	2 00	. .	. . .	8	52 00		
Coppersmiths,	2	2 35	. .	. . .	8	61 10		
Common Laborers,	122	1 54	2	1 00	10	40 04	10	26 00
Switch Tenders,	24	2 09	. .	. . .	12	54 34		
Painters,	7	2 39	. .	. . .	8	62 14		
Draughtsman,	1	3 46	. .	. . .	8	90 00		
General Office Clerks,	49	2 81	. .	. . .	8	73 06		

"This report is based upon full time for the year, (313 days.) Machinists, carpenters, blacksmiths, &c., &c., are, however, reduced to eight hours per day as a matter of economy—ten hours being the standard day's work."

THO. WARNOCK,
Auditor.

MEADVILLE, PA., *7th May, 1877.*

CHARACTERISTICS OF ROAD.—Length of main line of road, Salamanca, New York, to Dayton, Ohio, 387.50 miles; length of main line of road in Pennsylvania, 92.42 miles; length of sidings—main line, 107.56 miles; gauge of road, 6 feet, 4 feet 9¼ inches, and 4 feet 9⅝ inches; weight of rail per yard on main track, 56 to 68 lbs.; branches owned by the company and length: Franklin branch, 33.78 miles; roads worked or leased by the company: Cleveland and Mahoning railroad and Sharon railway; number of engine houses, 14; number of engines, 170; number of first-class passenger cars, 13; average cost of each, $3,500; number of second class passenger cars, 32; average cost of each, $2,000; number of baggage, mail, and express cars, 25; average cost of each, $1,200; number of freight—house cars, 893; trucks, 1,702; total, 2,595; average cost of house cars, $700; average cost of trucks, $350; number of caboose cars, 92; average cost of each, $700; number of iron bridges, 5; length—total, 641 feet; number of wooden bridges, 57; length—total, 6,114 feet; number of stone bridges, 3; total length, 80 feet; number of culverts, 662; total length, 18, 045 feet; railroads crossed, 35; number of stations on main road: Passenger, 18; passenger and freight, 60; freight, 15; total, 93; number of wood and water stations on main road: Wood stations, 22; water, 43; total, 65; value of real estate held by the company, exclusive of railway, about $144,650; laid with steel rails, 146.35 miles.

Philadelphia and Reading Railroad Company—Philadelphia, Pa.

	Men.	Pay per day.	Boys.	Pay per day.	Women.	Pay per day.	Pay of men per month.	Pay of boys per month.
President,	1						$945 00	
Vice Presidents, First and Second,	2						600 00	
Comptroller and Assistant,	2						302 82	
General Solicitor,	1						333 33	
Chief Engineer,	1						450 00	
General Ticket Agent,	1						191 25	
Real Estate Agent,	1						191 25	
General Superintendent,	1						450 00	
General Freight Agent,	1						360 00	
Engineer of Machinery,	1						255 00	
Auditors, First and Second,	2						175 32	
General Purchasing Agent,	1						360 00	
Secretary of Board of Directors,	1						360 00	
Directors,	6							
Treasurer and Assistant,	2						459 38	
Paymaster,	2						182 25	
Division Superintendents,	5						$101 25@212 50	
Local Engineers,	10						60 75@255 00	
Master Mechanics of Shops,	10						72 90@121 50	
General Foremen of Shops,	66						44 55@ 93 15	
Traveling Engineer,	2						68 85	
Road Foremen,	6						67 50@112 50	
Clerks, &c., in General Office,	91		2		4	$0 55@$1 00	22 50@159 38	$18 00@21 35
Clerks,	249		3				16 20@159 38	
Superintendent Telegraph and Assistant,	2			$0 45@$0 59			121 50	
Telegraph Operators and Messengers,	97		13				4 50@ 63 00	
Freight and Ticket Agents,	219				8		3 15@101 25	*4 50@17 10
Depot Masters,	2						45 00@ 52 65	
Train Masters,	4						68 85	
Train Dispatchers,	78						34 02@103 50	
Locomotive Drivers,	380	$1 62@$3 24						
Conductors, (Passenger,)	109	2 57@ 3 06						
Conductors, (Freight and Coal,)	223	1 53@ 2 66						
Brakemen,	1,000	1 22@ 2 12						

Philadelphia and Reading Railroad Company—*Continued.*

	Men.	Pay per day.	Boys.	Pay per day.	Women.	Pay per day.	Pay of men per month.	Pay of boys per month.
Firemen,	385	$0 99@ 2 16						
Watchmen,	482						$12 60@ 48 60	
Track Foremen,	58						40 50@ 81 00	
Trackmen,	1,116	1 10@ 1 25						
Baggage Masters,	40	1 62@ 1 89						
Bridge Builders,	58	50@ 3 11						
Carpenters,	91	50@ 3 11						
Car Builders,	570	86@ 1 73	29	$0 50@ 1 00				
Blacksmiths,	302	98@ 2 16	10	50@ 1 00				
Machinists,	371	75@ 2 03	90	50@ 1 00				
Moulders,	93	90@ 1 76	4	50@ 1 00				
Boiler Makers,	55	97@ 1 77	5	50@ 1 00				
Tinners,	42	90@ 1 86	7	50@ 1 00				
Coppersmiths,	8	1 29@ 1 94	1	50@ 1 00				
Common Laborers,	440	54@ 1 65			28		2 70@ 25 20	
Switch Tenders,	69	97@ 2 14						
Painters,	45	86@ 2 15	4	50@ 1 00				
Masons,	12	90@ 2 60						
Car Inspectors,	134						32 81@ 64 80	
Telegraph Repairmen,	8	44 50@60 75						
Express Employees,	143		14				4 50@101 25	$14 40

* Women.

GEORGE DeB. KEIM,
President pro tem.

June 16, 1877.

Allentown Railroad Company.

Office: No. 227 South Fourth street, Philadelphia.

Wages.—President, $52 50 per month; Secretary, $10 13 per month; Directors, six; no pay; Treasurer, $10 13 per month.

Hours worked per day for each of the above, seven.

HOWARD HANCOCK,
Secretary.

May 11, 1877.

CHARACTERISTICS OF ROAD.—Railroad, Port Clinton to Allentown, 35.8 miles; railroad laid, Topton to Kutztown, 4.5 miles; double track, none; sidings, 0.3 miles; gauge of road, 4 feet 8½inches; weight of rail per yard, 64 lbs.; engine houses, 1; wooden bridges, 1; length, 18 feet; culverts, 7; length, 505 feet; stations, 1; track laid on cross-ties, broken stone ballast.

Controlled and operated by Philadelphia and Reading Railroad Company.

Colebrookdale Railroad Company.

Office: No. 227 South Fourth street, Philadelphia.

Wages—Secretary, $13 50 per month; Treasurer, $16 88 per month; hours worked per day, seven.

HOWARD HANCOCK,
May 11, 1877. *Secretary.*

CHARACTERISTICS OF ROAD.—Pottstown to Hosensack, 18.8 miles; track laid, Barto, 12.8 miles; double track, none; sidings, 2.1 miles; gauge of road, 4 feet 8½ inches; weight of rail per yard, 56 pounds; engine houses, 1; iron bridges, 1—length, 25 feet; wooden bridges, 2—length, 160 feet; culverts, 16—length, 936 feet; number of stations, 9; water stations, 1; track laid on cross-ties, broken stone ballast.

Leased and operated by Philadelphia and Reading Railroad Company.

East Pennsylvania Railroad Company.

Office: 227 South Fourth street, Philadelphia.

Wages—Secretary, $10 13 per month; Treasurer, $10 13 per month; hours worked per day, seven; days worked per year, three hundred.

HOWARD HANCOCK,
May 11, 1877. *Secretary.*

CHARACTERISTICS OF ROAD.—Length of road, Reading to Allentown, 36 miles; double track, 18.3 miles; sidings, 16.5 miles; gauge of road, 4 feet 8½ inches; weight of rail per yard, 64 and 68 pounds; engine houses, 2; shops, 1; iron bridges, 4—length, 191 feet; wooden bridges, 22—length, 395 feet; stone bridges, 7—length, 305 feet; culverts, 65—length, 2,559 feet; roads crossed, 1, Catasauqua and Fogelsville railroad; number of stations, 12; wood and water stations, 5; track laid on cross-ties, broken stone and cinder ballast.

Leased and operated by Philadelphia and Reading Railroad Company.

Perkiomen Railroad Company.

Office, No. 227 South Fourth street, Philadelphia.

Wages—President, $100 per month; Secretary of Board of Directors, $8 33 per month; Secretary, $16 88 per month; Treasurer, $20 25 per month.

HOWARD HANCOCK,
Secretary.

May 11, 1877.

CHARACTERISTICS OF ROAD.—Railroad, Perkiomen Junction to Emaus, 38.5 miles; double track, none; sidings, 63; gauge of road, 4 feet 8½ inches; weight of rail per yard, 56 and 68 pounds; engine houses and shops, none; iron bridges, 8—length, 188 feet; wooden bridges, 14—length, 2,095 feet; number of stations, 26; water stations, 4; tunnels, 1—length, 1,677 feet; track laid on cross-ties; broken stone and cinder ballast.

Leased and operated by Philadelphia and Reading Railroad Company.

Pickering Valley Railroad Company.

Office: 227 South Fourth street, Philadelphia.

Wages—Secretary, $13 50 per month; Treasurer, $16 88 per month; hours worked per day, 7; days worked in the week, 300.

HOWARD HANCOCK,
Secretary.

May 11, 1877.

CHARACTERISTICS OF ROAD.—Railroad, Phœnixville to Byers, 11.3 miles double track, none; sidings, 0.6; gauge of road, 4 feet 8½ inches; weight of rail per yard, 56 lbs; engine house, 1; iron bridges, 3—length, 66 feet; wooden bridges, 2—length, 170 feet; culverts, 39—length, 1,636 feet; number of stations, 9; wood and water stations, none. Track laid on cross-ties; broken stone and cinder ballast.

Leased and operated by the Philadelphia and Reading Railroad Company.

Reading and Columbia Railroad Company—No. 227 South Fourth Street, Philadelphia.

	Men.	Pay per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
President,	. .	. . . .	$52 50		
Secretary,	. .	. . . .	30 38	7½	300
Directors,	12	. . . .	. . . .		
Treasurer,	.	. . . .	40 50	7½	300
Division Superintendents,	1	. . . .	146 63	12	313
Road Foremen,	2	. . . .	56 70	10	313
Chief Clerk Maintenance Way,	1	. . . .	40 00	10	313
Clerks,	1	. . . .	35 00	10	313
Telegraph Operators,	4	. . . .	28 87	10	313
Ticket and Freight Agents,	25	. . .	36 63	10	313
Depot Masters,	2	. . . .	34 42	10	313
Train Masters,	1	. . . .	36 00	10	313
Train Dispatchers,	1	. . . .	81 00	12	313
Locomotive Drivers,	11	$2 83	. . . .	12	313
Conductors, (Passenger,)	4	2 52	. . . .	12	313
Conductors, (Freight,)	7	2 07	. . . .	12	313
Brakemen,	25	1 68	. . . .	12	313
Firemen,	11	1 73	. . . .	12	313
Watchmen,	11	. . . .	26 75	12	313
Track Foremen,	24	1 25	. . . .	10	313
Trackmen,	24	1 08	. . . .	10	313
Baggage Masters,	4	1 75	. . . .	12	313
Carpenters,	3	1 76	. . . .	10	313
Car Builders,	1	1 80	. . . .	10	313
Blacksmiths,	1	1 95	. . . .	10	313
Helpers,	1	1 00	. . . .	10	313
Machinists,	2	1 92	. . . .	10	313
Common Laborers,	9	1 20	. . . .	10	313

HOWARD HANCOCK.
Secretary.

May 14, 1877.

CHARACTERISTICS OF ROAD.—Length of road, Columbia to Sinking Spring, 40 miles; length of double track, none; length of sidings, 5.61 miles; weight of rail per yard, 56 and 68 lbs.; gauge of road, 4 feet 8½ inches; length of branches with sidings, 19.64 miles; roads leased: Quarryville branch of Lancaster and Reading Narrow Gauge Railroad, 15.34 miles; sidings, 1.34 miles; number of engines, 10; freight cars, 31; first-class passenger cars, 7; roadway, 10; baggage and express cars, 1; iron bridges, 2; length in feet, 98; wooden bridges, 35; length in feet, 1,732; stone bridges, 1; length in feet, 32; railroads crossed, 4; water stations, 5; passenger and freight stations, 25; track laid on cross-ties, broken stone and cinder ballast.

Little Schuylkill Navigation, Railroad and Coal Company—410 Walnut Street, Philadelphia.

	Men.	Average hours worked per day.	Pay of men per month.	Days worked in the year.
President,	1	......	$100	
Managers,	6			
Treasurer and Secretary,	1	4	125	300

CHARACTERISTICS OF ROAD.—Railroad from Port Clinton, Schuylkill county, Pa., via the valley of the Little Schuylkill river, to junction with Catawissa railroad, in all 28 miles long.

Leased to the Philadelphia and Reading Railroad Company until year 1965, under a fixed rental, and worked by lessees as a branch of their main line.

JOS. LAPSLEY WILSON,
Treasurer and Secretary.

April 26, 1877.

Ligonier Valley Railroad Company—Ligonier, Pa.

The condition of our company or road is as follows: Our road is graded, but the panic of 1873 suspended all further operations, and up to this time we have been unable to obtain sufficient funds to complete and operate the road.

The financial standing of our company has been properly reported. Names of officers are as follows: S. H. Baker, president; N. M. Markin, R. W. Graham, W. H. Covode, W. A. Bear, A. A. Johnson, J. M. Breniser, and W. D. McGoward, directors.

Hoping the above statement may be satisfactory,

I remain
Yours respectfully,
JNO. MURDOCK,
Secretary and Treasurer.

May 24, 1877.

Elmira and Williamsport Railroad Company—300 Walnut street, Philadelphia.

	Men.	Pay of men per month.
President,	1	$208 33
Secretary of Board of Directors,	1	125 00
Directors,	6	
Treasurer,	1	

The Elmira and Williamsport railroad is leased to the Northern Central Railway Company. The rest of the questions can only be answered by them.

E. O. WERNE,
Secretary.

April 26, 1877.

Frankford and Holmesburg Railroad Company—48 South Water street, Philadelphia.

Philadelphia, *April 26, 1877.*

W. Hayes Grier, Esquire,
Chief of the Bureau of Industrial Statistics:

Sir: The Frankford and Holmesburg Railroad Company has been, since its completion, leased to, and operated by, the Philadelphia and Trenton Railroad Company, to the Secretary of which I am compelled to refer you for the desired information, not being able to furnish it myself.

Very respectfully, yours, &c.

B. F. CRISPIN,
Secretary Board of Directors.

48 South Water street.

North Pennsylvania Railroad Company—Office, No. 407 Walnut street, Philadelphia.

	Men.	Pay per day.	Boys.	Pay per day.	Women.	Pay per day.	Pay of men per month.	Pay of women per month.	Days worked in the year.
President,	1								
Chief Engineer,	1								
General Agent,	1								
Master Mechanic,	1								
Purchasing Agent,	1								
Sec'y of Board of Directors,	1								
Directors,*	12								
Treasurer,	1								
Pay Master,	1						$100 00		
Local Engineer,	1						90 00		
Mechanics of shops,	42	$2 50							
General Foreman of shops,	1						100 00		
Chief Clerk of Motive Power,	1						110 00		
Road Master,	1								
Clerks,	73						44 61		310
Chief Telegraph Operator,	1						81 00		310
Telegraph Repairer,	1						60 00		310
Telegraph Operators,	13				1		38 11	$22 50	310
Station Agents,	51						49 61		365
Depot Master.	1						100 00		365
Master of Transportation,	1								
Ass't Master of Trans'n,	1								
Train Dispatchers,	21	1 65							310
Locomotive Drivers,	51	3 00							310
Conductors, (Passenger,)	18	2 90							310
Conductors, (Freight,)	19	2 10							310
Brakemen,	93	1 65							310
Firemen,	51	1 90							310
Watchmen,	21	1 35							365
Track Foremen,	33	1 80							310
Stationary Engineers,	3	2 00							310
Trackmen,	318	1 10	2	$0 75					310
Masons,	6	2 50							310
Baggage Masters,	28	1 75							310
Engine Wipers,	16	1 45							310
Carpenters,	62	2 37½							310
Car Inspectors,	10	1 85							310
Blacksmiths,	29	2 60							310
Upholsterer,	1	2 50							310
Pattern Maker,	1	2 75							310
Boiler Makers,	7	2 50							310
Tinners,	2	2 50							310
Coppersmiths,	3	2 75							310
Car Cleaners,	7	1 00			10	$0 90			310
Common laborers,	119	1 50							310
Switch Tenders,	14	1 45							310
Painters,	9	2 50							310
Flagmen,	37	1 00							310
Store Keepers,	2	1 85							310
Pensioners,	3	1 25							

* No compensation.

CHARACTERISTICS OF ROAD.—See Railroad Report for 1875, page 457. (Pennsylvania Annual Report of the Secretary of Internal Affairs Part IV.)

Above figures include labor furnished North-East Pennsylvania and Stony Creek Railroads, (leased lines.)

FRED'K T. IDDINGS,
Auditor.

May 23, 1877.

Buffalo, New York and Philadelphia Railroad Company—Buffalo, New York.

	Men.	Pay per day.	Women.	Pay of men per month.	Pay of women per month.
President,	1				
Vice President,	1				
Chief Engineer,	1	...	..	$100	
* General Ticket Agent,					
General Superintendent,	1	...	..	150	
General Master Mechanic,	1	...	..	100	
* Secretary of Board of Directors,					
Directors,	13				
Treasurer,	1	...	..	125	
General Foremen of Shops,	2	...	..	60	
Chief Clerk of Motive Power,	1	...	..	50	
Road Foremen,	1	...	..	75	
Clerks,	19	...	..	36	
Telegraph Operators,	12	...	..	31	
Ticket and Freight Agents,	24	...	..	33	
Depot Masters,	1	...	..	60	
Train Dispatchers,	1	...	..	75	
Locomotive Drivers,	21	...	..	80 to 103	
Conductors, (Passenger,)	3	...	..	65	
Conductors, (Freight,)	9	...	..	60	
Brakemen,	33	...	..	40	
Firemen,	19	...	..	40 to 65	
Watchmen,	8	$1 00			
Track Foremen,	23	...	..	40	
Trackmen,	90	1 00			
Baggage Masters,	3	...	..	45	
Carpenters,	14	1 80			
Car Repairers,	19	1 00			
Blacksmiths,	12	1 83			
Machinists,	10	1 80			
Boiler Makers,	1	2 25			
Tinners,	1	2 00			
Common Laborers,	35	1 00	3	......	$15 00
Switch Tenders,	10			42	
Painters,	2	2 10			
Assistant Superintendent,	1	...	..	100	
Car Inspectors,	4	1 00			
General Freight Agent,	1	..	..	100	

* By Treasurer.

F. S. BUELL,
Secretary.

April 28, 1877.

CHARACTERISTICS OF ROAD.—Length of main line, from Buffalo, New York, to Emporium, Pa., $120\frac{55}{100}$ miles; length of main line in Pennsylvania, $41\frac{90}{100}$ miles; length of sidings, $19\frac{15}{100}$ miles; gauge of road, 4 feet $8\frac{1}{2}$ inches; weight of rail per yard, 56, 60, and 62 lbs.

State Line and Sullivan Railroad—Towanda, Pa.

	Men.	Pay per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
President,	1	....	$500 00	10	312
Vice President,	1				
General Superintendent,	1	....	50 00	10	312
Secretary of Board of Directors,	1	....	8 33⅓	10	312
Directors,	6				
Treasurer,	1	....	250 00	10	312
Paymaster,	1	....	8 33⅓	10	312
Division Superintendents,	1	....	75 00	10	312
Road Foremen,	1	....	75 00	10	312
Chief Telegraph Operator,	1	....	35 00	10	312
Telegraph Operators,	4	....	35 & 40	10	312
Locomotive drivers,	1	$3 50	.....	10	312
Conductors, (passenger and freight,)	1	....	70 00	10	312
Brakemen,	4	1 70	.....	10	312
Firemen,	1	2 25	.....	10	312
Watchmen,	1	....	40 00	10	312
Track Foremen,	1	....	75 00	10	312
Trackmen,	24	....	.....	10	312

CHAS. E. PARSONS,
President.

May 9, 1877.

CHARACTERISTICS OF ROAD.—Length of main road, Monroeton, Pa., to Bernice, Pa., 24 miles. Length of sidings, 3½ miles. Gauge of road, 4 feet 8½ inches. Weight of rail, 50 and 56 pounds. Number of wooden bridges, 6. Total length of bridges, 625 feet. Three culverts, total length, 200 feet. Number of stations on road, 7. Hemlock, beech, oak, and chestnut ties, ballasted with coal dust and gravel.

Pittsburgh, Titusville and Buffalo Railway—Pittsburgh, Pa.

	Men.	Pay per day.	Pay per hour.	Boys.	Pay per day.	Pay of men per month.	Days worked in the year.
President,	1						
Vice President,	1						
Solicitor,	1					$125 00	
Auditor,	1					150 00	
General Ticket Agent,	1					25 00	
General Superintendent,	1					208 33	
General Purchasing Agent,	1					33 33	
Secretary of Board of Directors,	1					83 33	
Directors,	7						
Treasurer,	1					116 66	
Pay Master,	1					30 00	
Division Superintendents,	1					250 00	
Master Mechanics of Shops,	1					166 67	
Bridge Watchmen,	10					30 00	
Chief Clerk of Motive Power,	1					95 00	
Supervisors,	2					90 00	
Clerks,	39					40 00 to 100 00	
Telegraph Operators,	9					60 00	
Freight and Ticket Agents,	28					15 00 to 125 00	
Depot Masters,	2					60 00	
Train Master,	1					100 00	
Train Dispatchers,	2					120 00	
Locomotive Drivers,	24	$2 25 to 4 00					
Conductors, (Passenger,)	5					90 00	
Conductors, (Freight,)	11	2 70					
Brakemen,	74	1 80					
Firemen,	29	2 00					
Watchmen,	34		$0 11				9
Track Foremen,	27					45 00	
Trackmen,	158		11				9
Baggage Masters,	9					41 00	
Carpenters,	38	2 00					
Blacksmiths,	12	2 25		15	$1 25		
Machinists,	22	2 00					
Moulder,	1					90 00	
Boiler Makers,	2					90 00	
Tinners,	2	2 00					
Coppersmith,	1	2 25					
Common laborers,	73	1 00					
Painters,	5	2 00					
Telegraph Repairer,	1					72 00	

T. F. BROWN,
Auditor.

May 12, 1877.

CHARACTERISTICS OF ROAD.—Length of main line, Corry to Irvineton, 95 miles; length of Union and Titusville Branch, 25 miles; length of Cherry Run Branch, 3 miles. The Pittsburgh, Titusville and Buffalo

Railway is operated in connection with the Buffalo, Corry and Pittsburgh Railroad and Allegheny Valley Railroad, and the salaries of the general officers are divided between the three roads. We do not pay any salary to president, vice president or directors. For further characteristics of the road, I would refer you to the annual report made to the Secretary of Internal Affairs.

Bellefonte and Snowshoe Railroad Company—Bellefonte, Pa.

	Men.	Pay per day.	Pay of men per month.	Days worked in the year.
President,	1	. . .	$83 34	
General Manager and Treasurer,	1	. . .	334 00	
Chief Engineer,	1	. . .	25 00	
Assistant Superintendent,	1	. . .	100 00	
General Master Mechanic,	1	. . .	112 50	
Secretary of Board of Directors,	1	. . .	25 00	
Directors,	5	. . .		
Chief Clerk,	1	. . .	100 00	
Clerks and Operators,	2	. . .	50 each.	
Locomotive Drivers,	3	$3 25	. . . . .	Full time.
Conductors, (Passenger and Freight,)	3	2 25	. . . .	do.
Brakemen,	9	1 50		
Firemen,	3	2 10		
Watchmen,	2	. . .	50 each.	do.
Track Foremen,	5	. . .	42 do.	do.
Trackmen,	20	1 00	. . . . .	do.
Carpenters,	2	2 25		
Car Builders,	2	2 12½		
Blacksmiths,	2	2 25 1 62½		
Machinists,	1	2 10		
Common Laborers,	4	1 00		
Switch Tenders,	1	. . .	40 00	
Station Agents,	2	. . .	40 00	

DANIEL RHOADS,
General Manager and Superiniendent.

BELLEFONTE, *May 28, 1877.*

REMARKS.—The road connects Bellefonte with the coal mines of the company in Snowshoe township, Centre county, and is 25½ miles long; it crosses the Allegheny mountains by means of switch backs, at an elevation of 1,727 feet above tide. Bituminous coal and lumber are the principal freights.

Bell's Gap Railroad Company—General Office, No. 11, Merchant's Exchange, Philadelphia.

	Men.	Pay per day.	Pay of men per month.	Days worked in the year.
President,	1			
Chief Engineer,*				
Superintendent,	1	. . . . .	$125 00	
Secretary of Board of Directors,	1			
Directors,	5			
Treasurer,	1			
Clerks,	1	. . . . .	70 00	Full time.
Ticket Agents,	2	. . . . .	10 00	Full time.
Locomotive Drivers,	2	$2 70	. . . . .	250
Conductors, (Passenger,) Conductors, (Freight,)	†2	2 00	. . . . .	250
Brakemen,	2	1 62½	. . . . .	250
Firemen,	2	1 62½	. . . . .	250
Hostler,	1	. . . . .	40 00	300
Track Foremen,	2	. . . . .	36 00 and 40 00	300
Trackmen,	6	1 00	. . . . .	300
Carpenters,	1	1 60	. . . . .	300
Car Builders,	2	1 80 and 1 90	. . . . .	300
Blacksmiths,	2	1 50 and 2 00	. . . . .	300
Car Inspector,	1	. . . . .	45 00	

* Combined with office of Superintendent.

† Freight and passenger trains are combined.

S. T. BILLMEYER,
Secretary.

PHILADELPHIA, *June 4, 1877.*

Ironton Railroad Company—Ironton, Pa.

	Men.	Pay per day.	Pay per annum.	Average hours worked per day.	Days worked in the year.
President,	. .	. . . .	$250		
General Manager,	. .	. . . .	1,500		
General Superintendent,	. .	. . . .	750		
Locomotive Drivers,	1	$3 25	. . . .	10	308
Brakemen,	3	1 50	. . . .	10	918
Firemen,	1	2 12	. . . .	10	
Track Foremen,	1	2 00	. . . .	10½	272
Trackmen,	6	95	. . . .	10½	1,632
Carpenters,	1	1 50	. . . .	10	304
Blacksmiths,	1	1 85	. . . .	10	307

CHARLES STEWART WURTS,
Treasurer.

May 25, 1877.

CHARACTERISTICS OF ROAD—Single track about 10 miles from Coplay to Ironton, including branch to Seigersville; used for transportation of iron ore and coal for mining purposes, and for limestone; but little other freight; no passenger traffic.

Lake Shore and Michigan Southern Railway—Cleveland, Ohio.

	Men.	Pay per day.	Average hours w'd per day.	Pay of men per month.	Months worked in the year.
Directors,	3				
Division Superintendent,	1	$6 66	10	$200 00	12 mos.
General Foremen of Shops,	5	3 65	10	95 00	12 mos.
Road Foremen,	31	1 92	10	50 00	12 mos.
Clerks,	27	1 84	10	48 00	12 mos.
Telegraph Operators,	20	1 80	10	47 00	12 mos.
Ticket Agents,	3	2 88	10	75 00	12 mos.
Depot Masters,	3	3 84	10	100 00	12 mos.
Yard Masters,	7	3 15	10	82 00	12 mos.
Train Dispatchers,	8	3 35	10	87 00	12 mos.
Locomotive Drivers,	40	3 50	10	90 00	12 mos.
Conductors, (Passenger,)	5	3 38	10	88 00	12 mos.
Conductors, (Freight,)	12	2 69	10	70 00	12 mos.
Brakemen,	27	1 80	10	47 00	12 mos.
Firemen,	43	1 75	10	45 50	12 mos.
Watchmen,	37	1 34	10	35 00	12 mos.
Trackmen,	8	1 19	10	31 00	9 mos.
Baggage Masters,	10	2 11	10	55 00	12 mos.
Bridge Builders,	14	2 50	10	65 00	12 mos.
Carpenters,	4	2 15	10	56 00	12 mos.
Car Sealers,	4	2 11	10	55 00	12 mos.
Blacksmiths,	5	1 70	9	44 00	12 mos.
Machinists,	4	1 90	9	57 00	12 mos.
Yard Conductors,	9	2 11	10	55 00	12 mos.
Yard Brakemen,	32	1 92	10	50 00	12 mos.
Targetmen,	2	1 73	10	45 00	12 mos.
Common Laborers,	152	1 15	10	30 00	9 mos.
Switch Tenders,	23	1 38	10	36 00	12 mos.
Hostlers,	7	2 15	10	56 00	12 mos.
Station Agents,	18	2 57	10	67 00	12 mos.
Flagmen,	8	1 19	10	31 00	12 mos.
Wipers,	17	1 19	10	31 00	12 mos.

C. P. LELAND,
Auditor.

Cleveland, *May 26, 1877.*

Pittsburgh and Castle Shannon Railroad Company—Pittsburgh, Pa.

	Men.	Pay per day.	Boys.	Pay per day.	Average hours worked per day.	Pay of men per month.	Pay of boys per month.	Days worked in the year.
President, ...	1	. . . .	. .	. . . . .	. . .	$208 33	. . . .	Full time.
Treasurer, ...	.	. . . .	. .	. . . . .	. . .	83 33	. . . .	do.
Assistant Secretary, .	. .	. . . .	. .	. . . . .	. . .	83 33	. . . .	do.
Master Mech's Shops,	1	. . . .	. .	. . . . .	. . .	83 33	. . . .	300
Road Foremen, . . .	1							
Clerks, ...	4	. . . .	. .	. . . . .	10	70 00	. . . .	300
Ticket Agents, ...	2	. . . .	. .	. . . . .	12	50 00	. . . .	300
Depot Masters, ...	1	. . . .	. .	. . . . .	12	65 00	. . . .	300
Locomotive Drivers, .	4	$2 25	. .	. . . . .	12	65 00	. . . .	300
Conductors, (Pass'gr,)	2	. . . .	. .	. . . . .	12	65 00	. . . .	365
Conductors, (Freight,)	1	. . . .	. .	. . . . .	12	50 00	. . . .	365
Brakemen, ...	3	1 25	. .	. . . . .	10	30 00	. . . .	250
Firemen, ...	2	. . . .	. .	. . . . .	12	35 00	. . . .	365
Watchmen, ...	2	1 50	. .	. . . . .	10	40 00	. . . .	365
Track Foremen, . . .	2	. . . .	. .	. . . . .	14	45 00	. . . .	300
Trackmen, ...	4	1 25	. .	. . . . .	10	30 00	. . . .	300
Car Builders, ...	5	1 50	. .	. . . . .	10	36 00	. . . .	300
Blacksmiths, ...	2	1 75	. .	. . . . .	10	. . . . .	. . . .	300
Machinists, ...	4	. . . .	. .	. . . . .	. . .	50 00		
Common Laborers, .	24	1 25	. .	. . . . .	. . .	30 00	. . . .	300
Switch Tenders, . . .	1	1 25	. .	. . . . .	. . .	30 00	. . . .	365
Coal Miners, ...	110	1 50	10	$0 75	6	36 00	$18 00	250
Pit Drivers, ...	10	1 25	4	1 00	6	30 00	24 00	250
Teamsters, ...	10	1 50	2	1 12	10	36 00	27 00	300

ED. J. REAMER,
Assistant Secretary.

June 1, 1877.

Peach Bottom Railroad Company—York, Pa.

	Men.	Pay per day.	Women.	Pay per day.	Pay of men per month.	Pay of women per month.
President,	1	. . .	. . .	. . .	$150 00	
Vice President,	1					
Chief Engineer,	1	. . .	. . .	. . .	75 00	
Secretary of Board of Directors,	1	. . .	. . .	. . .	100 00	
Directors,	12					
Division Superintendents,	5	$1 50				
Train dispatchers,	1	1 10				
Locomotive Drivers,	3	2 17				
Conductor, (Passenger,)	1	. . .	. . .	. . .	60 00	
Conductor, (Freight,)	1	1 30				
Brakemen,	2	1 00				
Firemen,	3	1 30				
Watchmen,	2	1 00				
Trackmen,	25	1 00				
Baggage Master,	1	1 30				
Common laborer,	. . .	. . .	1	$0 50	. . . .	$12 00

WILLIAM WALLACE,
Secretary.

April 27, 1877.

CHARACTERISTICS OF ROAD.—The office of president includes president, general superintendent, and freight agent. Secretary includes treasurer, secretary, and ticket agent. Gauge of road, 3 feet; length of road, 60 miles; road bed part ballast and part gravel. Road divided into two divisions, Middle and Eastern; Middle Division embraces 40 miles, from York to Susquehanna river; Eastern Division embraces 20 miles, from Susquehanna river to Oxford, Chester county.

The above report includes only the force on the Middle Division. For report of Eastern Division, I refer you to John A. Alexander, superintendent, Oxford Chester county, Pa.

Catasauqua and Fogelsville Railroad Company—Catasauqua, Pa.

	Men.	Pay per day.	Average hours worked per day.	Pay of men per month.	Days worked in the year.
President,	1	. . . .	10	$40 00	313
General Superintendent,	1	. . . .	10	166 66	313
Treasurer and Secretary,	1	. . . .	10	26 66	313
Master Mechanics of Shops,	1	$2 50	12	. . . . .	313
Road Foremen,	1	. . . .	10	52 00	313
Chief Clerk, G. F. Agent,	1	. . . .	10	80 00	313
Clerks,	1	. . . .	10	45 00	313
Ticket Agents,	1 1 1	. . . .	10	52 00 45 00 30 00	313
Locomotive Drivers,	2	2 50	12	. . . . .	313
Conductors, (Passenger,)	1	. . . .	12	58 50	313
Conductors, (Freight,)	1	1 63	12	. . . . .	313
Brakemen,	3	1 58	13	. . . . .	313
Firemen,	2	1 80	12	. . . . .	313
Watchmen and Wiper,	1	1 10	12	. . . . .	313
Track Foremen,	10	1 25	12	. . . . .	313
Trackmen,	12	1 10	12	. . . . .	313
Baggage Masters,	1	1 71	12	. . . . .	313
Carpenters,	1	1 67	12	. . . . .	313
Blacksmiths,	1	1 65	12	. . . . .	313
Machinists,	1	1 35	12	. . . . .	313
Switch Tenders,	1	1 20	12	. . . . .	313

JOHN WILLIAMS, *Secretary*,
per Kemmerer.

April 28, 1877.

Barclay Railroad—Elmira, N. Y.

	Men.	Pay per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
Master Mechanic of Shops,	1	. . .	$100 00	10	313
Road Foreman,	1	. . .	75 00	10	313
Chief Telegraph Operator,	1	. . .	80 00	12	313
Telegraph Operators,	4	$0 62½	. . . .	. . .	313
Ticket Agents,	4	1 54	. . . .	. . .	313
Locomotive Drivers,	5	3 30	. . . .	. . .	310
Conductors, (Passenger,)	1	3 00	. . . .	. .	315½
Conductors, (Freight,)	2	3 00	. . . .	. . .	369
Brakemen,	12	1 60	. . . .	. . .	342
Firemen,	5	1 90	. . . .	. . .	376
Watchman,	1	2 00	. . . .	. . .	365
Track Foremen,	3	. . .	45 00	. . .	365
Trackmen,	18	1 18	. . . .	. . .	325
Car Builders,	6	2 00	. . . .	. . .	312
Blacksmiths,	2	2 00	. . . .	. . .	328
Machinists,	2	2 12½	. . . .	. . .	327
Common laborers, on "Plane,"	6	1 50	. . . .	. . .	356
Foreman "Plane,"	1	2 25	. . . .	. . .	354
Weighmaster,	1	. . .	50 00	. . .	313
Wipers, (engines,)	2	1 50	. . . .	. . .	315

A. B. CHAMBERLIN,
Superintendent.

ELMIRA, *May 17, 1877.*

Philadelphia, Wilmington and Baltimore—Philadelphia, Pa.

	Men.	Pay per day.	Boys.	Pay per day.	Women.	Average hours worked per day.	Pay of men per month.	Pay of women per month.	Pay of boys per month.	Hours worked per day.
President,	1									
Vice President,	1									
Chief Engineer,	1									
General Ticket Agent,	1									
General Superintendent,	1									
General Master Mechanic,	1									
Master of Transportation,	1									
Sec. of Board of Directors,	1									
Directors,	13									
Treasurer,	1									
Assistant Treasurer,	1									
Pay Master,	1						$100 00			
Master Mech's of Shops,	4						161 00			
Gen'l Foremen of Shops,	12						97 50			
Road Foremen,	5						110 50			
Clerks,	96		9			9	67 76		$28 00	9
Telegraph Operators,	57					11	52 47			
Ticket Agents,	7						101 20			
Depot Masters,	2						137 50			
Train Dispatchers,	2						125 00			
Locomotive Drivers,	73					11	93 64			
Conductors, (Passenger,)	33						81 74			
Conductors, (Freight,)	40						72 94			
Brakemen,	174						47 57			
Firemen,	62		16			11	49 83		27 06	11
Watchmen,	45					10	47 81			
Track Foremen,	38					10	60 78			
Trackmen,	296					10				
Baggage Masters,	31						52 46			
Draughtsman,	1						75 00			
Ladies' Maids,					7			$19 86		
Bridge Builders,	65	$2 24				10				
Stationery Engineers,	10					10	45 30			
Carpenters,	18	2 19				9½				
Car Builders,	72	2 18	2	$0 77		9½				
Car Cleaners,	21	1 41			10	10		24 35		
Blacksmiths,	28	2 37				9½				
Engine Cleaners,	42	1 36				10				
Machinists,	58	2 19	5	0 88		9½				
Station Agents,	50				3		55 92	16 11		
Boiler Makers,	7	2 20				9½				
Tinners,	7	2 10				9½				
Porters,	16						33 60			
Coppersmiths,	1	3 25				9½				
Common Laborers,	230	1 48				9½				
Signalmen,	7						35 00			
Switch Tenders,	52						41 47			12
Flagmen,	40						32 28			
Painters,	39	2 19	2	0 90		9½				
Pattern Makers,	1	2 70	1	1 10		9½				
Stone Masons,	5	2 44				10				
Upholsterers,	2	2 48				9½				
Bridge Keepers,	15						51 00			

H. F. KENNEY,
Superintendent.

May 23, 1877.

Lawrenceville and Evergreen Passenger Railway Company—Office, 86 Wood st., Pittsburgh, Pa.

	Men.	Pay per day.	Average hours w'kd per day.	Hours worked per day.	Days worked in the year.
President,	1				
Directors,	6				
Treasurer,	1				
Locomotive Driver,	1	$2 00	12	12	365
Conductor, (Passenger,)	1	1 33	12	12	365
Watchman,	1	66	14	14	365
Track Foreman,	1	1 50	10	10	250
Trackman,	1	1 00	10	10	250

A. C. McCALLAM.
Secretary.

PITTSBURGH, *May 17, 1877.*

CHARACTERISTICS OF ROAD.—Length of main line of road, $2\frac{61}{100}$ miles; gauge of road, 3 feet; weight of rail 28 and 30 pounds; number of engines, 1; number of passenger cars, 2; number of freight cars 1; track laid on oak cross-ties; number of wooden bridges, 9; total length in feet, 200. The road extends from Bennet's station, on the West Penn. railroad, to Evergreen, and does exclusively a local passenger traffic.

Summit Branch Railroad—Millersburg, Pa.

	Men.	Pay per day.	Pay of men per month.	Hours worked per day	Days worked in the year.
Division Superintendents,	1	. . . . .	$200 00		
Master Mechanics of Shops,	1	. . . . .	100 00		
Clerks,	1	. . . . .	83 32		
Telegraph Operators,	4	. . . . .	45 00 and 50 00	10 to 12	
Ticket Agents,	4	. . . . .	10 00 to 26 00	4 to 6	
Train Master,	1	. . . . .	75 00	8 to 10	
Train Dispatcher,	1	. . . . .	63 00	8 to 10	
Locomotive Drivers,	5	. . . . .	67 50 and 75 00	10 to 12	
Conductor, (Passenger,)	1	. . . . .	67 50	9	
Conductors, (Freight,)	3	$1 85	. . . . .	10 to 12	721
Brakemen,	9	1 65 and 1 75	. . . . .	9 to 12	1,798
Firemen,	5	1 80	. . . . .	10 to 12	1,247
Watchmen,	6	. . . . .	45 00 to 49 50	12	
Track Foremen,	5	. . . . .	48 00	9 & 10	
Trackmen,	25	1 44	. . . . .	9 & 10	6,581
Carpenters,	5	1 70	. . . . .	8	1,288
Blacksmiths,	4	1 80	. . . . .	8	1,029
Machinists,	2	1 80	. . . . .	8	548
Boiler Makers,	1	1 62	. . . . .	8	260
Common Laborers,	5	1 15	. . . . .	8	1,148
Switch Tenders,	1	1 44	. . . . .	10	309
Painters,	1	1 15	. . . . .	8	270
Car Inspectors,	2	1 91	. . . . .	10	552
Signal man,	1	. . . . .	45 00	10	

WILLIAM HACKER,
Auditor.

May 14, 1877.

CHARACTERISTICS OF ROAD.—Summit Branch Railroad, Millersburg to Williamstown. No salary is paid to the general officers of the company, the railroad being merely an adjunct to the coal company.

Respectfully,
WILLIAM HACKER,
Auditor.

Office, No. 233 South Fourth street.
PHILADELPHIA, *May 14, 1877.*

Pittsburgh, Cincinnati and St. Louis Railway Company—Columbus, Ohio.

	Men.	Pay per day.	Women.	Pay per day.	Average hours worked per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
General Superintendent,	1	$8 87⅔	...	...	10	$270 00	10	365
Master Mechanic,	1	5 75	...	...	10	175 00	10	365
Division Superintendent,	1	7 50	...	...	10	225 00	10	365
General Foremen of Shops,	2	2 83	...	...	10	85 00	10	360
Traveling Engineer,	1	....	...	...	10	125 00	10	365
Road Foremen,	1	4 16	...	...	10	125 00	10	365
Clerks,	25	1 86	...	...	8	55 90	8	360
Telegraph Operators,	35	1 56½	...	...	12	47 03	12	365
Ticket Agents,	17	82	...	...	10	24 56	10	365
Depot Masters,	1	3 60	...	...	10	108 00	10	365
Yard Masters,	3	2 60	...	...	12	78 00	12	365
Train Masters,	1	3 60	...	...	10	108 00	10	365
Train Dispatchers,	2	3 33	...	...	10	100 00	10	365
Locomotive Drivers,	14	3 11	...	...	...	......	8	360
Conductors, (Passenger,)	5	2 85	...	...	10	85 65	10	360
Conductors, (Freight,)	22	2 48	...	...	10	74 48	10	360
Brakemen,	82	1 63	...	...	10	39 30	10	360
Firemen,	14	1 53	...	...	...	......	8	360
Watchmen,	23	1 20	...	...	10	36 00	10	365
Track Foremen,	10	1 45	...	...	10	44 50	10	365
Trackmen,	49	1 00	...	...	10	.....	10	262
Baggage Masters,	4	1 67½	...	...	10	48 73	10	360
Bridge Builders,	16	2 00	...	...	9	.....	9	165
Carpenters,	2	2 00	...	...	9	.....	9	323
Car Cleaners,	...	....	4	$1 00	10	.....	10	312
Car Builders,	8	1 50	...	...	10	46 25	10	327
Car Inspectors,	8	1 50	...	..	10	46 25	10	365
Blacksmiths,	2	2 47	...	...	7	.....	7	247
Machinists,	11	1 93	...	...	7	.....	7	273
Boiler Makers,	1	2 45	...	...	7	.....	7	267
Tinners,	1	1 95	...	...	...	58 50	...	365
Common Laborers,	49	1 05	...	...	10	.....	10	262
Switch Tenders,	4	1 29	...	...	12	38 83	12	365
Office Cleaners,	...	....	2	...	5	25 00	5	312
Stationary engineers,	1	1 35	...	...	8	......	...	300

D. W. CALDWELL,
General Manager.

June 22, 1877.

Characteristics of Road.—Length of main track in Pennsylvania, 33.8 miles; length of main track laid with steel rail, 60 pounds per yard, 20.3 miles; length of main track laid with iron rail, 64 pounds per yard, 13.5 miles; length of second main track in Pennsylvania, 14.5 miles; length of second main track laid with steel rail, 60 pounds per yard, 1 mile; length of second main track laid with iron rail, 64 pounds per yard, 13.5 miles; length of side track in Pennsylvania, 6 miles; length of side track laid with iron rail, 64 pound per yard, 6 miles; track laid on broken stone ballast, fish-bar joints, 33.8 miles; number of cross-ties per mile, 2,640; gauge, 4 feet 9¼ inches; maximum grade per mile in Pennsylvania, 52.8 feet; proportion of maximum grade to whole length in Pennsylvania, 52 per cent.;

length of straight main track in Pennsylvania, 19.7 miles; proportionate length of straight main track in Pennsylvania, 58 per cent.; length of curved main track in Pennsylvania, 14.1 miles; proportionate length of curved main track in Pennsylvania, 42 per cent.; degrees of curvature in main track in Pennsylvania, 2,762° 27′; maximum radius of curvature in Pennsylvania, 955 feet; number of tunnels in Pennsylvania, 3; total length of tunnels in Pennsylvania, 3,539 feet; number of wooden bridges, "Howe truss," in Pennsylvania, 13; total length of wooden bridges, "Howe truss," in Pennsylvania, 1,680 feet; number of iron bridges in Pennsylvania, 1; length of iron bridges in Pennsylvania, 1,082 feet; number of stone-arched bridges in Pennsylvania, 7; length of stone-arched bridges in Pennsylvania, 807 feet; engine-houses in Pennsylvania, 1; coal and water stations in Pennsylvania, 5; stations in Pennsylvania, 27.

Commissioners for the Wilmington and Reading Railroad Company—Coatesville, Pa.

	Men.	Pay per day.	Average hours worked per day.	Pay of men per month.	Days worked in the year.
President,	1	....	....	$333 33	
General Superintendent,	1	....	....	291 66	
Treasurer and Pay Master,	1	....	....	185 00	
Commissioners,	3				
Division Superintendents,	2	....	....	75 00	
General Foremen of Shops,	1	....	....	80 00	
Clerks,	3	....	....	81 00	
Telegraph Operators,	2	....	....	50 00	
Ticket Agents and Telegraph Operators,	22	....	....	48 00	
Locomotive Drivers,	8	$2 55	10	.....	308
Conductors, (Passenger,)	3	2 14	10	.....	308
Conductors, (Freight,)	2	2 14	10	.....	308
Brakemen,	7	1 40	10	.....	308
Firemen,	5	1 50	10	.....	308
Watchmen,	3	1 50	12	.....	365
Track Foremen,	19	1 25	9	.....	308
Trackmen,	39	1 40	9	.....	308
Baggage Masters,	2	1 40	10	.....	308
Bridge Builders,	3	2 00	10	.....	308
Carpenters and Car Builders,	7	1 80	9	.....	308
Blacksmiths,	2	1 60	9	.....	308
Machinists,	2	2 00	9	.....	308
Boiler Makers,	1	2 10	9	.....	308
Common Laborers,	3	1 20	9	.....	308
Switch Tenders,	1	1 50	10	.....	308

P. S. ERMOLD,
Secretary and Treasurer.

May 14, 1877.

REMARKS.—The road extends from Wilmington, Delaware, to Reading, Pa., which includes the branch from Birdsboro', Pa., to Reading. The road was, by the default of paying its interest coupons, thrown into litigation in the circuit court of the United States for the Eastern district of Pennsylvania, and was sold in December, 1876, under foreclosure of the first mortgage bondholders, and the sale confirmed on January 6, 1877. The road has since that time been re-organized under the name, style and title of the "Wilmington and Northern Railroad Company."

Summit Branch Railroad Company—Railroad Division, Lykens, Pa.

	Men.	Pay per day.	Boys.	Pay per day.	Average hours worked per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
Division Superintendents, .	1	. . . .	. .	. . . .	. . .	$200 00		
Master Mech's of Shops, . .	1	. . . .	. .	. . . .	. . .	100 00		
Clerks, ...	1	. . . .	. .	. . . .	. . .	83 33		
Telegraph Operators, . .	4	. . . .	. .	. . . .	. . .	45 00 and 50 00	10 to 12	
Ticket Agents, ...	4	. . . .	. .	. . . .	. . .	10 00 to 26 00	2 to 4	
Train Masters, ...	1	. . . .	. .	. . . .	. . .	75 00	8 to 10	
Train Dispatchers, ...	1	. . . .	. .	. . . .	. . .	63 00	8 to 10	
Locomotive Drivers, . . .	5	. . . .	. .	. . . .	. . .	67 50 to 75 00	10 to 12	
Conductors, (Passengers,) .	1	. . . .	. .	. . . .	. . .	67 00	9	
Conductors, (Freight,) . . .	3	$1 85	. .	. . . .	. . .	. . . .	10 to 12	721
Brakemen, ...	9	1 65 and 1 75	. .	. . . .	. . .	. . . .	9 to 12	1,798
Firemen, ...	5	1 80	. .	. . . .	. . .	. . . .	9 to 12	1,247
Watchmen, ...	6	. . . .	. .	. . . .	. . .	45 00 to 49 50	12	
Track Foremen, ...	5	. . . .	. .	. . . .	. . .	48 00	9 to 10	
Trackmen, ...	25	1 44	. .	. . . .	. . .	. . . .	9 to 10	6,581
Carpenters, ...	5	1 70	. .	. . . .	8	. . . .	. . . . .	1,288
Blacksmiths, ...	4	1 80	. .	. . . .	8	. . . .	. . . . .	1,029
Machinists, ...	2	1 80	2	$0 80	8	. . . .	. . . . .	548
Boiler Makers, ...	1	1 62	. .	. . . .	8	. . . .	. . . . .	260
Common Laborers, ...	5	1 15	. .	. . . .	8	. . . .	. . . . .	1,148
Switch Tenders, ...	1	1 44	. .	. . . .	10	. . . .	. . . . .	309
Painters, ...	1	1 15	. .	. . . .	8	. . . .	. . . . .	270
Car Inspectors, ...	2	1 21	. .	. . . .	10	. . . .	. . . . .	552
Signalman, ...	1	. . . .	. .	. . . .	10			

R. C. PEEBLES,
Superintendent Railroad Division.

May 10, 1877.

CHARACTERISTICS OF ROAD.—Coal road; some little passenger and merchandise freight business done; extends from Millersburg, Dauphin county, Pa., (N. C. R. W.,) to Williamstown, Dauphin county, Pa., a distance of 19.7 miles.

McKean and Buffalo Railroad Company—Smethport, Pa.

	Men.	Pay per day.	Average hours worked per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
President,	1	. . .	. . .	. . .	. . .	1 yr.
Vice President,	1	. . .	. . .	. . .	. .	1 yr.
General Ticket Agent,	1	. . .	. . .	. . .	. . .	1 yr.
General Superintendent,						
Secretary of Board of Directors,	1	. . .	. . .	. . .	. . .	1 yr.
Directors,	7	. . .	. . .	. . .	. . .	1 yr.
Treasurer,	1	. . .	. . .	. . .	. . .	1 yr.
Pay Master,						
Road Foremen,*		. . .	. . .	. . .	. . .	1 yr.
Chief Clerk Maintenance Way,†	. . .	. . .	. . .	. . .	. . .	1 yr.
Chief Telegraph Operator,	1	. . .	. . .	. . .	. .	1 yr.
Telegraph Operators,	3	. . .	12	$40	12	320
Ticket Agents,	4	. . .	12	45	12	320
Train Dispatchers,‡	. . .	. . .	. . .	. . .	. . .	1 yr.
Locomotive Drivers,	1	. . .	12	90	12	320
Conductors, (Passenger,)	1	. . .	12	65	12	320
Conductors, (Freight,)						
Brakemen,	2	. . .	12	45	12	320
Firemen,	1	. . .	12	50	12	320
Track Foremen,	2	. . .	10	40	10	320
Trackmen,	10	$1 20	10	. . .	10	320
Baggage Masters,	1	. . .	12	45	12	320
Blacksmiths,	1	. . .	12	55	12	320

*By Superintendent. †By Treasurer. ‡By Chief Telegraph Operator.

S. R. GODDEN,
Superintendent.

May 7, 1877.

CHARACTERISTICS OF ROAD.—Length of main line of road laid, from Larabee to Clermont, $22\frac{15}{100}$ miles; length of sidings, $4\frac{65}{100}$ miles; gauge of road, 4 feet $8\frac{1}{2}$ inches; weight of rail per yard on main track, 62 pounds; main line is laid with steel rails, on foundation of timber cross-ties, ballasted with gravel; engine-houses, 2; engines, 2; number of wooden bridges, 19; total length in feet, 1,323; culverts, 54; total length in feet, 135; number stations, passenger, 7; freight, 1; number water stations, 4; passenger coaches, 2; freight cars, (gondolas,) 4.

Business of road most exclusively coal.

West Chester and Philadelphia Railroad Company—No. 3100 Chestnut street, Philadelphia.

	Men.	Pay per day.	Boys.	Pay per day.	Women.	Pay of men per month.	Pay of women per month.
President,	1					$125 00	
Auditor and General Ticket Agent,	1					125 00	
Superintendent,	1					291 66	
Master Mechanic,	1					100 00	
Master Carpenter,	1					125 00	
Secretary of Board of Directors,	1					41 66	
Treasurer,	1					150 00	
Road Foreman,	1					65 00	
Clerks in general office,	6					43 33	
Chief Telegraph Operator,					1		$50 00
Telegraph Operators,	3					45 00	
Freight and Ticket Agents, average,	14				6	40 82	26 25
Train Master,	1					90 00	
Freight Dispatcher,	1					75 00	
Locomotive Drivers,	9	$3 08					
Conductors, (Passenger,)	6	2 50					
Conductor, (Freight,)	1	2 45					
Brakemen,	11	1 60					
Firemen,	8	1 82					
Watchmen,	3					40 00	
Track Foremen,	7	1 77					
Trackmen,	31	1 26					
Baggage Masters,	5	1 75					
Carpenters and Car Builders,	7	2 33					
Blacksmiths,	5	2 00					
Machinists,	5	2 46					
Coppersmith ,	1	2 25					
Common laborers,	16	1 37			2		32 50
Switch Tenders,	5	1 42					
Painters,	4	2 19					
Upholsterer,	1	2 35	1	$0 75			
Car Inspector,	1	2 05					

A. D. SHARPLES,
Auditor.

June 16, 1877.

Remarks.—Road operated, 36 miles; business, one third freight two thirds passenger.

Greenlick Narrow-Gauge Railway Company—Scottdale, Pa.

	Men.	Pay per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
President,	1				
Secretary of Board of Directors,	1	$1 00	$15 00	10	90
Directors,	9				
Treasurer,	1	1 00	15 00	10	90
Clerks,	1	1 33⅓	40 00	10	300
Locomotive Drivers,	1	2 40	72 00	10	300
Brakemen,	2	2 75	82 50	10	300
Trackmen,	3	4 50	135 00	10	300
Carpenters,	1	2 00	60 00	. . .	300
Common Laborers,	1	1 25	37 50	. . .	300

NATH'L MILES,
Treasurer.

May 24, 1877.

CHARACTERISTICS OF ROAD.—Length of main line of road, Greenlick Junction to Mt. Vernon mines, 3½ miles; length of sidings, ¼ mile; gauge of road, 3 feet; weight of rail per yard, 24 and 30 pounds; 1 engine, 1 second-class passenger car, and 16 ore cars; 7 wooden bridges; total length, 250 feet; 2 culverts; total length, 8 feet; track is laid on foundation of cross-ties, stone and slag ballast.

NATH'L MILES,
Secretary.

Cornwall Railroad Company—Lebanon, Lebanon County, Pa.

	Men.	Pay per day.	Pay of men per month.	Days worked in the year.
President,	1	. . . . .	$41 66	All year.
General Superintendent,	1	. . . . .	91 67	do.
Secretary of Board of Directors,	1	. . . . .	41 66	do
Directors,	5			
Treasurer,	1	. . . . .	100 00	do.
Clerks,	1	. . . . .	45 00	do.
Locomotive Drivers,	2	. . . . .	91 67 and 55 00	do.
Conductors, (Freight,)	2	. . . . .	45 00	do.
Brakemen,	4	$1 90 and 1 65	. . . . .	do.
Firemen,	2	1 75 and 1 25	. . . . .	do.
Watchmen,	1	1 10	. . . . .	do.
Track Foremen,	1	. . . . .	55 00	do.
Trackmen,	7	1 25 and 1 00	. . . . .	do.
Carpenters,	2	1 90 and 1 25	. . . . .	do.
Blacksmiths,	2	1 75 and 1 65	. . . . .	do.

D. S. HAMMOND,
Treasurer.

May 8, 1877.

CHARACTERISTICS OF ROAD.—Cost of road and equipment, $431,926 88; length of main line in miles, $7\frac{47}{100}$ miles; length of main line in Pennsylvania, entire; length of sidings, $3\frac{852}{5280}$ miles; gauge of road, 4 feet $8\frac{1}{2}$ inches; weight of rail per yard on main line, 56, 60, 64, and 68 lbs; length in miles of branch roads owned, $1\frac{3966}{5280}$ miles; number of engine houses aud shops, one, (1;) number of engines, three, (3;) length of miles laid in steel rails, $1\frac{2425}{5280}$ miles.

Hanover Junction, Hanover and Gettysburg Railroad Company—Hanover, Pa.

	Men.	Pay per day.	Av'ge hours worked per day.	Pay of men per month.
President,	1	...	...	$83 33
General Manager,*				
General Ticket Agent,	1	...	...	75 00
General Superintendent,	1	...	...	41 66
General Purchasing Agent,†				
Secretary of Board of Directors,	1	...	...	4 16
Directors,	10	...	...	1 50
Treasurer,	1	...	...	12 50
Master Mechanics of shops,	1	$2 00	8	
Road Foremen	4	...	10	45 00
Telegraph Operators,‡	2			
Ticket Agents,	9	...	...	16 25
Train Dispatchers,	2	...	...	32 50
Locomotive Drivers,	3	...	8	55 00
Conductor, (Passenger,)	1	...	8	65 00
Conductors, (Freight,)	2	...	8	55 00
Brakemen,	3	...	8	35 00
Firemen,	3	...	8	35 00
Trackmen,	20	1 00	10	
Baggage Masters,	2	...	8	35 00
Carpenters,	1	1 25	8	
Blacksmiths,	2	1 70	8	
Machinists,	2	1 40	8	
Painters,	1	2 00	10	

* The President. † The Superintendent. ‡ Paid by the Western Union Telegraph Company.

R. YOUNG,
Auditor.

May 8, 1877.

REMARKS.— This road extends from Hanover Junction, on the Northern Central railroad, to Gettysburg, a distance of thirty miles, and is nearly all ballasted with stone, and is laid with a part steel and part iron rails of fifty-six pounds to the yard.

Little Saw Mill Run Railroad Company—Thirty-sixth Ward, Pittsburgh, Pa.

	Men.	Pay per day.	Boys.	Pay per day.	Average hours worked per day.	Pay of men per month.	Total number of days worked in the year.
President,	1	. . .	. . .	. . .	. .	$100	1 year.
General Manager,*							
General Superintendent,*							
General Purchasing Agent,†							
Secretary of Board of Directors,	1						
Directors,	6						
Treasurer,	1						
Pay Master,*							
General Foreman of Shops,‡							
Clerks,	1	. . .	. . .	. . .	. . .	65	1 year.
Locomotive Drivers,	2	$2 75	. . .	. . .	10	. . .	383
Conductors, (Passenger,)	1	2 00	. . .	. . .	10	. . .	313
Brakemen,	2	1 75	. . .	. . .	10	. . .	355
Firemen,	2	2 10	. . .	. . .	10	. . .	372
Watchmen,	1	1 60	. . .	. . .	10	. . .	244
Track Foremen,	1	1 80	. . .	. . .	10	. . .	274
Trackmen,	2	1 40	. . .	. . .	10	. . .	824
Carpenters,	2	2 50 1 75	. . .	. . .	10	. . .	468
Blacksmiths,	1	2 00	1	$1 50	10	. . .	465
Machinists,	2	3 00 2 25	. . .	. . .	10	. . .	298
Common Laborers,§							
Tipple Foreman,	1	2 00	. . .	. . .	10	. . .	231
Tipplemen,	8	1 75	. . .	. . .	10	. . .	1,084

* President acting.

† President or Clerk acting.

‡ First Machinist acting.

§ Done by Tipplemen, given in Roadmen's time.

JOHN S. HOLLINGSHEAD,
President.

May 22, 1877.

CHARACTERISTICS OF ROAD.—Our road extends from Pittsburgh to Banksville, a distance of three miles; used chiefly for the transportation of bituminous coal from the mines, at Banksville, to the Ohio river. We run one passenger car, four round trips per day. Road is laid on coal slack, stone, and timber; four wooden bridges; total length, including trestle approaches, about 2,100 or 2,200 feet; gauge of road, 4 feet 8½ inches; weight of rail, 53 and 56 pounds per yard. Our labor is somewhat mixed, in consequence of regular machinists doing engineers' work, and *vice versa;* and firemen doing brakemen's work, and *vice versa;* tipplemen working on the road, and roadmen working at the tipples, arising from our business being irregular; but the figures given above are as correct as we can make them.

The Jefferson Railroad Company—P. O. Box 839, New York City.

	Men.	Pay per day.	Average hours worked per day.	Pay of men per month.
President,	1			
Secretary of Board of Directors,	1			
Directors,	13			
Treasurer,	1			
Clerks,	3	. . . .	10	$50 00
Telegraph Operators,	8	. . . .	12	20 00
Depot Masters,	8	. . . .	12	36 75
Train Dispatchers,	3	. . . .	12	87 50
Locomotive Drivers,	6	$4 00		
Conductors, (Freight,)	4	3 00		
Brakemen,	16	1 75		
Firemen,	6	2 36		
Watchmen,	31	1 25	12	
Track Foremen,	9	. . . .	10	50 00
Trackmen,	66	1 25	10	
Baggage Masters,	1	. . . .	12	15 00
Carpenters,	9	2 00	10	
Blacksmiths,	2	1 87	10	
Switch Tenders,	3	1 58	12	

A. K. MACDONOUGH,
Secretary.

April 30, 1877.

CHARACTERISTICS OF ROAD.—The Jefferson railroad is 45½ miles in length; 36½ miles from Susquehanna Depot to Carbondale; 9 miles from Hawley to Honesdale; of 6 feet gauge, with rail 55, 60, and 67½ lbs to the yard, laid on wooden cross-ties, filled in with earth, stone, and cinders. Its principal business is the transportation of coal.

The road is leased and operated by the Erie Railway Company. The particulars of its operations being kept as a part of the general accounts of the Erie Railway Company, and its employés of the higher grades being the same as those generally serving the Erie Railway Company in the same capacities, they cannot be more particularly specified as applied exclusively to this road; and as the day's work of all trainmen employed on it is computed by the number of miles they run, the average hours worked per day cannot be given.

Salisbury Railroad Company—Meyersdale, Somerset County, Pa.

	Men.	Pay per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
President,	1				
Chief Engineer,	1	. . .	$75 00		
General Superintendent,	1	. . .	75 00		
Secretary of Board of Directors,	1	. . .	125 00		
Directors,	7				
Treasurer,	1				
Locomotive Driver,	1	$2 00			
Brakeman,	1	1 50			
Fireman,	1	1 50			
Watchman,	1	1 00			
Track Foreman,	1	2 00			
Trackmen,	8	1 25	. . . .	10	300
Common Laborers,	27	1 25	. . . .	10	300

NOAH SCOTT,
Secretary S. R. R. Company.

April 28, 1877.

Characteristics of Road.—The entire length of road is twelve miles. The entire road is graded. Three miles are completed and in running order. Nearly all our force has been employed on construction, and, therefore, the force employed in all other departments has been light.

The Philadelphia and Baltimore Central—Philadelphia, Pa.

	Men.	Pay per day.	Average hours worked per day.	Pay of men per month.	Days worked in the year.
President,	1				
General Master Mechanic,	1	$6 41			
Road Foremen,	2	4 81			
Clerks,	8	2 31			
Telegraph Operators,	2	. . . .	10	$50 00	365
Ticket Agents,	31	. . . .	. . .	50 00	365
Train Dispatchers,	1	. . . .	. . .	100 00	365
Locomotive Drivers,	6	3 00	10	. . . .	313 and 365
Conductors, (Passenger,)	3	2 75	10	. . . .	313 and 365
Conductors, (Freight,)	2	2 50	10	. . . .	313
Brakemen,	9	1 50	10	. . . .	313 and 365
Firemen,	6	1 75	10	. . . .	313 and 365
Watchmen,	. .	. . . .	. . .	50 00	365
Track Foremen,	12	. . . .	10	50 00	313
Trackmen,	60	1 10	10	. . . .	313
Baggage Masters,	3	1 75	10	. . . .	313
Carpenters,	3	2 25	10	. . . .	313
Car Builders,	5	2 30	10	. . . .	313
Blacksmiths,	2	2 25	10	. . . .	313
Machinists,	4	2 40	10	. . . .	313
Common Laborers,	6	1 05	10	. . . .	313
Painters,	3	2 50	10	. . . .	313

H. WOOD, *President*,
per A. J. Lamborn.

April 27, 1877.

CHARACTERISTICS OF ROAD.—Length of road laid in Pennsylvania, 36.75; length of sidings, 6.50; gauge, 4 feet 8½ inches; length of Chester railroad, leased and operated by this company, 7.25; length of sidings, 2; gauge, 4 feet 8½ inches.

Harrisburg and Potomac Railroad Company—Boiling Springs, Pa.

	Men.	Pay per day.
President,	1	$3 50
Chief Engineer,	1	3 00
General Superintendent,	1	2 00
Secretary of Board of Directors,	1	
Directors,	9	
Treasurer,	1	
Road Foreman,	2	1 50
Clerks,	1	1 25
Locomotive Drivers,	1	1 35
Conductors, (Passenger and Freight,)	1	1 60
Brakemen,	1	1 00
Firemen,	1	1 25
Watchmen,	1	0 80
Trackmen,	6	0 90

ASBURY DERLAND,
Superintendent.

May 1, 1877.

CHARACTERISTICS OF ROAD.—Road located in Cumberland and York counties; in operation, 24 miles; from Bowmansdale, York county, to Longsdorf, Cumberland county; connects with Mechanicsburg and Dillsburg Railroad, thence to Harrisburg.

The Sharon Railway—Principal Office, Sharon, Pa.

	Men.	Avgerage hours worked per day.	Pay of men per month.
President,	1	No regular hours.	No salary.
Secretary of Board of Directors,	1		$25 00
Directors,	7		No salary.
Treasurer,	1		$50 00

GEORGE BOYCE,
President.

April 27 1877.

CHARACTERISTICS OF ROAD.—The railroads of this corporation are operated by the receiver of the Atlantic and Great Western railroad, under arrangement for lease between the corporation and the Atlantic and Great Western Railroad Company. The information furnished as to employés simply applies to the officers of the corporation, whose duties are principally in connection with the maintenance of the corporate existence of the company, the receipt and disbursement of rent received from lease of roads, &c., and who have no regular hours of labor. For information as to labor in connection with the operation of the roads, reference is made to said receiver.

The roads of the corporation are as follows: From Sharon to a point of connection with the Atlantic and Great Western railroad, near Transfer station, (4 feet $9\frac{3}{4}$ inches gauge,) $7\frac{760}{1000}$ miles; extension from a point on above, near Sharon, toward State line, (4 feet $9\frac{3}{4}$ inches gauge,) $\frac{830}{1000}$ miles; from Sharon to coal mines of Buhl, Westerman & Co., (3 feet gauge,) $3\frac{730}{1000}$ miles; total, $12\frac{320}{1000}$ miles.

East Broad Top Railroad and Coal Company—Orbisonia, Pa. Main Office: 320 Walnut Street, Philadelphia.

	Men.	Pay per day.	Women.	Pay per day.	Average hours worked per day	Pay of men per month.
President,	1	. . . .	. .	. . .	March 1 to November 1, 10 hours per day. November 1 to March 1, 9 hours per day.	$112 50
Vice President,	1					
Superintendent,	1	. . . .	. .	. . .		187 50
Directors,	7					
Treasurer and Secretary,		. . . .	. .	. . .		75 00
Master Mechanics of Shops,	1	$3 00				
Road Foremen,	1	. . . .	. .	. . .		50 00
Clerks,*	4	. . . .	. .	. . .		28 75
Telegraph Operators,	4					
Freight and Ticket Agents,*	9	. . . .	. .	. . .		28 11
Locomotive Drivers,*	5	2 52				
Conductors, (Passenger,)	1	2 30				
Conductors, (Freight,)*	4	1 93				
Brakemen,	7	1 25				
Firemen,*	5	1 37				
Watchmen,	3	1 08				
Track Foremen,	7	. . . .	. .	. . .		40 00
Trackmen,	17	1 00				
Baggage Masters,	1	1 50				
Carpenters,*	3	1 50				
Blacksmiths,*	2	1 52				
Common Laborers,	8	1 00				
Car Inspectors,	2	1 12½				
Car Cleaners,	. . .	. . . .	1	$0 50		

* Average rate of wages.

A. W. SIMS,
Superintendent.

May 9, 1877.

Characteristics of Road.—Mount Union to Robertsdale, 30 miles; sidings, $5\frac{31}{100}$ miles; gauge of road, 3 feet; weight of rail per yard, 40, 45, and 50 lbs.; track laid on oak cross-ties and broken ballast.

Lancaster, Pa., *April 25, 1877.*

W. Hayes Grier,
Chief of the Bureau of Industrial Statistics:

Dear Sir: The Lancaster and Reading Narrow Gauge railroad is leased for the term of nine hundred and ninety-nine years to the Reading and Columbia Railroad Company.

Yours truly,
W. LEAMAN,
Secretary.

Pittsburgh, Virginia and Charleston Railway Company—Pittsburgh, Pa.

	Men.	Pay per day.	Average hours worked per day.	Pay of men per month.	Hours worked per day.	Days worked in the year.
Master Mechanics of Shops,	1	. . .	. . .	$100	Ten hours.	(313) Three hundred and thirteen.
Supervisor,	1	. . .	. . .	95		
Telegraph Operators, Ticket Agents,	7	. . .	. . .	40		
Train Dispatchers,	1	. . .	. . .	90		
Locomotive Drivers,	4	. . .	. .	2 at 90 2 at 75		
Conductors, (Passenger,)	2	. . .	. . .	80		
Conductors, (Freight,)	2	. . .	Ten hours.	65		
Brakemen,	5	. . .		45		
Firemen,	4	. . .		50		
Watchmen,	2	. . .		40		
Track Foremen,	6	. . .		45		
Trackmen,	24	$1 00				
Baggage Masters,	2	. . .	. . .	60		
Carpenters,	1	. . .	. .	65		
Car Repairer,	1	. . .	. . .	65		
Blacksmiths,	1	. . .	. . .	65		
Common Laborers,	2	. . .	. . .	40		
Janitor,	1	1 33				
Messenger,	1	1 50				

D. P. CORWIN,
Secretary.

Pittsburgh, *April 26, 1877.*

Characteristics of Road.—Road extends from Pittsburgh to Monongahela City; thirty miles; principally single track; road bed, broken stone and oak ties; is built on the south-west bank of the Monongahela river.

Newry Railroad Company—Newry, Pa.

The Newry railroad is leased to the Pennsylvania Railroad Company. They operate the road. This company has nothing to do in operating it.

ALEX. KNOX,
Secretary.

April 26, 1877.

Fayette County Railroad Company—Connellsville, Pa.

CONNELLSVILLE, PA., *April 27, 1877.*

HON. W. HAYS GRIER,
Chief of the Bureau of Industrial Statistics, Harrisburg, Pa.:

DEAR SIR: The blank form for railroad labor report, sent to the Fayette County Rrilroad Company, received. In reply would say that our road is leased to, and operated by, the Pittsburgh and Connellsville Railroad Company, and that we employ no labor, and none of the officers of the company receive any salary.

Yours truly,
W. H. BAILY,
Secretary Fayette County Railroad Company.

Cleveland and Pittsburgh—Cleveland, Ohio.

President, $5,000 per annum; 12 directors, no compensation; 1 treasurer and secretary, $500 per annum; 1 clerk, $500 per annum.

REMARKS.—Leased to Pennsylvania Railroad Company.

G. A. INGERSOLL,
Secretary and Treasurer.

May 2, 1877.

New Railroad connections with the Semi-Bituminous Coal Fields of Tioga county, Pa.—Syracuse, Geneva, and Corning Railroad.

Since our last report, important railroad connections have been made with Central New York and the coal fields of Tioga county, Pa.

The construction of the Syracuse, Geneva, and Corning railway, during the summer and autum of 1877, connecting the Corning, Cowanesque, and Antrim railroad at Corning, N. Y., has been a source of great rejoicing for the citizens of Tioga county, who have desired a more direct communication with central and eastern New York.

The length of the new road is 57¾ miles.

While affording the citizens of Tioga county a more direct and nearer market for their coal, lumber, and agricultural products, it also gives those in search of pleasure delightful facilities for witnessing the grand and beautiful in nature. The road crosses Watkins Glen by means of an iron bridge, erected 150 feet above the water in the chasm. Here the tourist will have an opportunity of viewing the "Glen" from its most grand and attractive point. In a business and commercial light, this road will prove of immense value. It opens up a direct communication with a portion of the State of New York, from which the people of Tioga county have been practically shut out. Their coal, lumber, and other products will now find an outlet by way of Geneva to Syracuse, Albany, Boston, the great North, also, to Rochester, Buffalo, and the West.

At the opening of the road in December last, the following resolutions were adopted at a dinner in Geneva. The resolutions were offered by Honorable Henry W. Williams, of Tioga:

"*Resolved*, That we regard with great gratification the connection now effected between northern Pennsylvania and central New York, with its great lines of transportation by means of the S. G. & C. R. R. It opens a short and direct route from our forests and coal fields to the markets where their products are needed, and brings seller and buyer, producer and consumer, into nearer relations.

"*Resolved*, That the completion of this important line of railroad reflects great credit upon the sagacity, energy and enterprise of General Geo. J. Magee, who projected it; and in the face of general business depression, had the rare courage to push so important and expensive an undertaking to an early completion."

Another new Railroad Enterprise.—The Elmira State Line and Tioga Railroad.

The Elmira State Line and Tioga railroads connect Elmira city by a direct line (narrow and broad gauge) to the coal regions of Tioga county, Pa., a distance of less than fifty miles. The road bed and bridge structures are of the most durable character, and the heavy silicon steel rail, seventy pound per yard, gives the road the appearance of solidity lacking in many of the roads in northern Pennsylvania.

We believe the semi-bituminous coal fields of Tioga county exceed in superficial extent any other region yielding the same character of coal, in the United States, and is justly celebrated as the most noted steam coal in the world. It would seem, then, that the avenues for the transportation of this most excellent mineral fuel over the State Line and U. I. & E. R. R. to New York and the Eastern States will furnish a lively and profitable traffic. Indeed we can hardly conceive how a line or a succession of lines could be improved geographically. Pennsylvania will make shipments of coal, iron ore, bark, lumber, and agricultural products, while in addition to a healthy passenger traffic from the New York State end of the line will come return shipments of salt, plaster, lime, stone, and merchandise generally.

The Elmira State Line and Tioga railroad make connections with the Northern Central, Utica and Ithaca, Lehigh Valley, and Erie railroads. Their gauge is such that cars of either road mentioned can be run over their road. Northern Pennsylvania and southern New York are to be congratulated upon the success of this new enterprise. Other railroad enterprises are now under consideration, and will, no doubt, be brought to a successful termination. We shall be able to present the "labor reports" of these roads in our next annual report.

Monongahela Inclined Plane Company, Pittsburgh, Pa.

Wages: President, $350 per year; treasurer, $350 per year; road master, $53 43 per month; first engineer, $85 44 per month; second engineer, $75 83 per month; 4 conductors, $61 57 each, per month; 2 firemen and watchmen, $55 71 per month; days worked during the year, 365.

JOHN L. AWL,
Secretary and Treasurer.

REMARKS—The plane is 640 feet long, starting from Canon street, in the Thirty-third ward, of Pittsburgh, and extending, at an angle of 35°, to Grand View avenue, in the Thirty-second ward; height of elevation, 370 feet. The cars are run by two stationary engines, located, with their boilers, at the top of the hill. The lower portion of the plane, for a distance of 280 feet, is built on an iron-plate girder-bridge, crossing the Pittsburgh, Cincinnati and St. Louis railway, and from the bridge to the top of the hill, on wooden trestle on stone foundations

North-East Pennsylvania Railroad—407 Walnut Street, Philadelphia.

Wages: Treasurer, $500 per annum; road master, $300 per annum.

This road is leased and operated by the North Pennsylvania Railroad Company, which company furnishes the rolling stock and labor.

FRED. T. IDDINGS,
Auditor N. P. R. R.

Reports have been received from the following railroads, operated by the Pennsylvania Railroad Company. As they contained nothing concerning the prices of labor, etc., they have not been inserted at length: Southwest Pennsylvania Railway Company, (office, 233 South Fourth street, Philadelphia,) Connecting railway, Bedford and Bridgeport Railroad Company, Philadelphia and Merion, Miffln and Centre, Uniontown and West Virginia, Tyrone and Clearfield, Philadelphia and Trenton, Chartiers Railway Company, Columbia and Port Deposit Railway Company, Lewisburg Centre and Spruce Creek Railway Company, Western Pennsylvania Railroad Company.

Somerset and Mineral Point Railroad Company—Somerset, Pa.

Wages: One general manager, $50 per month; one chief engineer, $75 per month; one general ticket agent, $50 per month; one superintendent, $50 per month; master mechanic, $75 per month; local engineer, $75 per month; road foreman, $35 per month; ticket agent, $50 per month; locomotive drivers, $75 per month; conductors, (passenger,) $50 per month; brakemen, $30 per month; firemen, $30 per month; watchmen, $35 per month; track foremen, $35 per month; trackmen, 90 cents per day; baggage masters, $35 per month; common laborers, 90 cents per day.

JOHN H. UHL,
Secretary of Board of Directors.

REMARKS.—The railroad is nearly ten miles long, and trains run in connection with the Pittsburgh and Connellsville railroad. Laboring men work ten hours per day.

Stony Creek Railroad Company—No. 407 Walnut Street, Philadelphia.

Wages: Treasurer, $500 per annum. The road is leased and operated by the North Pennsylvania Railroad Company.

F. T. IDDINGS,
Auditor N. P. R. R.

Mount Oliver Incline Railway Company—Pittsburgh, Pa.

Wages: Secretary of board of directors, $8 33 per month; local engineers, $62 and $75 per month; road foreman, $60 per month; conductors, $60 per month; firemen, $50 per month; hours worked per day, 9 to 12.

EDWARD MOYE,
Secretary.

CHARACTERISTICS OF ROAD.—The Mount Oliver Incline Railway Company is located within the city limits of Pittsburgh, Pa.; operated by stationary engines, and used exclusively for the transportation of passengers and such packages and articles usually carried by same. The length of the road is 1,600 feet; double track; gauge of road, five feet; number of cars used, two.

LEHIGH VALLEY.

Early in the history of the proprietaryship of Pennsylvania, settlements were made in what is now known as the Lehigh valley.

Early Modes of Traveling.

In early days, the "Forks," now the site of the flourishing borough of Easton, was reached by boats. The policy of the founder of Pennsylvania was carried out by encouraging the settlements upon the upper waters of the Delaware, and by building roads that should penetrate their remotest boundaries. The first road leading from Philadelphia touched the Lehigh at Jones Island, about a mile below the present site of the borough of Bethlehem. The second was a road from Goshenhoppen, in Montgomery county, to Jeremiah Trexler's tavern, which stood in what is now Upper Macungie township, then in the territory of Bucks, subsequently embraced in the county of Northampton at the time of its formation, in March, 1752.

This road was laid out in 1732. All communication between Philadelphia and the Lehigh previous to this time was by the Delaware river.

In 1737, a road was opened from Nazareth to the Depui settlement, and this was followed by other roads in 1744, from Walpack ferry, on the Delaware, to Isaac Yesseltine's place, on the Lehigh. A road was asked for in the year 1745, to run from Bethlehem to the "Forks of the Delaware." It was quite a number of years before any of these roads really came into use.

Progress and Utility of the Highways.

In 1763, a stage route was established, leading from the Lehigh to Philadelphia, by George Klein. He made one trip each week, starting every Monday morning from the Sun tavern, in Bethlehem; on his return, leaving Philadelphia from the inn called the "King of Prussia," Thursday morning. Mr. Klein was the pioneer stage proprietor of the county.

During the twenty years preceding the establishment of this route, the population in the valley of the Lehigh had largely increased. Settlers came thronging in by the river and the turnpike routes, up to the commencement of the Revolutionary War, and, in fact, during that period. Immediately after and for a few years succeeding the termination of the war, new enterprises were devised and carried into successful operation.

In 1795, the route to Philadelphia was shortened. A new route was established which ran due south across the Lehigh mountains from Bethlehem, which substantially rendered the old Hellertown route obsolete. The establishment of this route led to further improvements in highway communication. The Easton and Wilkes-Barre Turnpike Company was incorporated February 11, 1803, the construction of the road commencing two years later. It was finally completed in 1815. A large portion of it, however, was in use before that year. This route opened communication with the settlers in Luzerne county and the beautiful valley of the Wyoming. It also inspired the projection and completion of other public improvements, initial steps in the development of the valley of the Upper Lehigh, and which finally opened into the rich coal deposits of the anthracite region. Cotemporary with the incorporation of the Wilkes-Barre Turnpike Company were those of the Spring House Turnpike Road Company, incorporated April 4, 1805; the Northampton Turnpike Road Company incorporated March 28, 1806; the Spring House, Northampton and Bethlehem Road Company, incorporated on the 16th of January, 1813; the Smithfield Turnpike Road Company, March 1, 1815; the Easton and Oghquago Turnpike Road Company, (afterwards the Belmont and Oghquago Turnpike Company,) February 16, 1817; the Wind Gap, Nazareth and Hellertown Turnpike Road Company, on the 24th of March, 1817; and the Northampton and Wilkes-Barre Turnpike Company on the 27th of March, 1819. While many of these routes did not prove profitable to the stockholders, yet it was not seed sown upon barren ground. They stimulated enterprise, increased the facilities for transportation, and attracted to the valley a large and healthy population, who assisted in developing the valley and contributed greatly to its subsequent prosperity.

Navigation.

While every effort was being made to connect the Lehigh Valley by means of turnpikes, with Philadelphia and other sections of the State, the improvement of the Lehigh river by means of slack-water navigation was commenced, and carried forward to a successful termination.

The year 1820 the Lehigh Coal and Navigation Company succeeded in floating down the Lehigh, from Mauch Chunk to Easton, three hundred and sixty-five tons of anthracite coal. Coal, however, had been previously floated down the river. The shipments by the Lehigh Coal and Navigation Company may properly be claimed as the first systematic plan for developing the great coal fields of anthracite, and establishing the permanency, for a long period of years, of a traffic in that mineral.

Development of Trade and Commerce through the Channels Prepared by the L. C. and N. Co. by Decades.

	Tons.
Production and shipment in 1820,	365
Production and shipment in 1830,	43,000
Production and shipment in 1840,	102,000
Production and shipment in 1850,	424,000
Production and shipment in 1860,	517,157
Production and shipment in 1870,	468,000

The year 1870 shows a decrease of 95,642 tons, as compared with 1869. In 1872, two years later, there were shipped 1,014,890 tons.

The effect produced by the consumption of this amount of coal stimulated various enterprises in the valley of the Lehigh. Step by step, progress was made in the development of the industrial, educational, and material interests of that locality. The increased demand for coal brought with it capital and enterprise, and energy was diffused into every branch of industry. The rich agricultural districts of Northampton and Lehigh counties brought forth increased productions, which met with a ready cash sale. Manufactures sprang up in the valley as by magic. Rolling mills, furnaces, forges, machine shops and other industrial establishments sprang into existence. Railroads were projected, iron mines opened, slate quarries developed, new towns laid out, old ones extended in area and increased in population, education was fostered; schools, academies, and colleges established, and permanent endowments secured. In fact, everything that could be desired in the development of the valley of the Lehigh, was the result. All these things, however, were not obtained without a struggle. There were leading spirits, who had foresight, ability, energy, and patience to direct these movements, and bring them into successful operation.

Railroads and Canals.

We now take a position upon the heights at Easton, where the eye can command a view of the valley of the Delaware and Lehigh, and witness the immense freight and passenger traffic of the New Jersey Central, the Lehigh Valley, North Pennsylvania, Morris and Essex, and the Belvidere and Delaware railroads, and the Lehigh and Wilkes Barre Coal and Canal Company. Also, view the numberless industries, that are centered at Easton, South Easton, Seitzville, Browntown, Glendon, in Pennsylvania, and Phillipsburg, in New Jersey, which give employment to thousands of men and women. A large portion of these improvements have sprung into being within the past thirty years—a development witnessed nowhere else in the world.

The Lehigh Valley Railroad.

The original charter of this company, by authority of the Legislature, was incorporated April 21, 1846, as the "Delaware, Lehigh, Schuylkill and Susquehanna Railroad Company." By a supplement to the act, the name was changed to the "Lehigh Valley," January 7, 1853. The main line, from South Easton to Mauch Chunk, was commenced November 27, 1852, and completed in the summer and fall of 1855. Trains, however, ran over the line, from South Easton to Allentown, on the 11th of June, 1855. In September of that year, Honorable Asa Packer, then contractor, now president, of the Lehigh Valley road, delivered it over to the company.

The Lehigh Valley Railroad Bridge over the Delaware River.

The double track spans, viz: 1 span, 180 feet; 3 spans, 172 feet each; 1 span, 168; 2 spans, 109 each; 1 span, 88 feet; total length, 1,170 feet.

Single track spans, viz: 1 span, 156 feet; 1 span, 145 feet; total, 301 feet. Heights from the river divided as follows: 50 feet from river to the top of pier, from thence to the top of bridge, 20 feet.

This is one of the finest structures in the country.

The North Pennsylvania Railroad.

This road first incorporated as the Philadelphia, Easton and Water Gap railroad, April 8, 1852, was changed to its present name October 3, 1853. Work was commenced in June 1853, and the first passenger train over the line ran from Philadelphia to Freemansburg and return, January 1, 1857. In July of the same year, the trains were taken off the Freemansburg branch and ran over the main line to South Bethlehem as the terminus.

The Lehigh and Susquehanna Railroad.

The Lehigh and Susquehanna railroad extends from Easton to Green Ridge, two miles above Scranton, in Luzerne county. For many miles up the Lehigh Valley it runs parallel with the Lehigh Valley railroad, and penetrates through all the anthracite coal regions of Luzerne. The first charter of this road was obtained in 1837, to run from Wilkes-Barre, on the north branch of the Susquehanna, to White Haven, on the Lehigh river. A charter covering its present limit was obtained in 1863. The road was completed in two years thereafter, and finally leased to the New Jersey Central, March 31, 1871.

The New Jersey Central Railroad.

This road was completed in 1852, and had its opening celebration on the 2d of July, of that year. The bridge across the Delaware not having been completed, the train came only to Phillipsburg; but the authorities of Easton felt that the road had literally touched the base of the Lehigh Valley, and the event should therefore be celebrated with due ceremony. The municipal authorities and committee of reception, headed by the Easton brass band, met the excursionists of the New Jersey Central at Phillipsburg and escorted them across the Delaware to Easton, where speech-making was indulged in by the delighted Eastonians and their guests. Other railroads run near the borough of Easton, across the Delaware, on the New Jersey side; but we have been particular to mention those only which run in Pennsylvania and make connections with the great railroad system of the State.

The Lehigh Valley Railroad, and the Industrial Interests along its line, commencing at the "Forks of the Delaware."

Easton is situated at the confluence of the Lehigh with the Delaware, about fifty miles above Trenton, and by rail sixty-six miles from Philadelphia. It contains a population of about fourteen thousand, but were the villages of South Easton, Glendon, Seitzville, and Browntown included, it would swell the population to twenty-three thousand. Easton is distinguished as being the seat of Lafayette College, one of the finest in the State; it is situated on a limestone bluff one hundred and fifty feet above the Bushkill, and overlooking the Delaware and Lehigh rivers. The charter for this college was obtained March 9, 1826, but the corner stone of the original college building was not laid until July 4, 1833.

The college grounds have been greatly improved, large additions made thereto, and now contain about thirty-five acres; under its present able management and its liberal endowments it maintains a reputation second to none.

The academy and common schools afford ample facilities to the sons and daughters of the industrial classes who have not the means of obtaining a collegiate education. The churches are commodious, and the press of the borough enterprising, so that the social, religious, and literary condition of the people could not well be better provided for.

The manufacturing industries of Easton and its immediate vicinity, consists in part of rolling mills, blast furnaces, machine shops, wire mills, foundries, planing mills, rope manufactures, cotton mills, tanneries, flouring mills, breweries, carriage shops, brick yards, agricultural works, etc.; also, the large machine shops of the Lehigh Valley railroad company. A careful estimate of the number of persons employed in these various establishments show that there are not less than five thousand in these depressed times, and in good times not less than six thousand find employment.

The cotton mill which gives employment to a large number of persons, has been in operation night and day for a long time. While many of the other industries have been depressed and idle, this establishment has been in very active operation.

Those most affected by the depression of the times are the furnaces, rolling mills, and machine shops, and men who were directly and indirectly connected with the railroads.

Near Easton is the village of Redington, which contains a furnace and a number of well finished and neatly painted tenement houses. From Redington the country on either side of the road denotes a high state of cultivation.

There is a good sized furnace also at Freemansburg.

Bethlehem is one of the oldest towns on the line of the Lehigh Valley. It was settled by the Moravians in 1746. It is now a flourishing borough. It is the seat of the Lehigh University, and is an important industrial and railroad centre. Population about fifteen thousand, including East and South Bethlehem. North of Bethlehem are the celebrated quarries of the Chapman slate company, a description of which will be found under the proper head. Between the quarries and Bethlehem is the town of Bath, located in one of the finest agricultural districts in the State, and on the line dividing the limestone and slate belts on the Lehigh and Lackawanna railroad.

Allentown is a beautiful city, located on the right bank of the Lehigh, and is noted for its manufacturing industries, which give employment to several hundred men, and superior common school buildings and colleges. Some of the richest beds of iron ore, zinc, limestone, and cement are here found. Several railroads and the Lehigh canal pass through.

Several furnaces are located at Catasauqua, Hokendauqua, and Coplay, near Allentown.

Slatington is sixteen miles from Allentown. At this point are a large number of slate quarries. (See slate.)

At Parryville and Lehighton, are furnaces.

At Packerton, the large machine shops of the Lehigh Valley railroad are located.

Mauch Chunk is the county seat of Carbon county. The scenery in the vicinity is grand and picturesque beyond description. Thousands visit here annually, to feast upon its beauties. Its industries are numerous, and afford employment to large numbers. From Easton to this point, the Lehigh Valley railroad, the Central New Jersey railroad, the canal, and the river run parallel. From Mauch Chunk to White Haven, the Lehigh Valley railroad passes over some of the wildest, most diversified, and attractive scenery to be found in this country. Still climbing the mountain, the summit is reached, and from this point, the view is sublime. A little further on is Fairview, from which place the valley of the Wyoming is spread out like a panorama; striking the beholder with wonder and admiration.

The city of Wilkes-Barre, containing twenty-five thousand inhabitants, is situated in the center of the Wyoming coal fields. There is, within a radius of five miles, a population of fifty thousand. Of industrial manufactories, there are a large number, consisting of foundries, machine shops, wire-rope works, flouring mills, &c. The city has grown rapidly in wealth and population, within the last ten years. From this point, the Lehigh Valley railroad runs northerly, through the Susquehanna Valley, to Sayre. The route of the road is through one of the most fertile portions of the State, of diversified scenery, and a favorite with tourists. Its main line is like a great artery, having innumerable tributaries, extending in every direction. On the north, it penetrates New York, and connects directly with the main trunk lines in the northern, western, and central portions of the State, with their numerous branches.

The following is a summary of the business of the road for last year:

Monthly Statement of Passengers, (All Classes,) Carried in Cars.

December, 1875,	93,934½	June, 1876,	95,786½
January, 1876,	86,929	July, 1876,	103,718
February, 1876,	75,580	August, 1876,	116,205
March, 1876,	83,414½	September, 1876,	141,736½
April, 1876,	81,027½	October, 1876,	141,655½
May, 1876,	93,927½	November, 1876,	119,528½

The Amount of Freight, Specifying the Quantity in Tons.

Anthracite coal,	4,425,695.62	Iron and other ores,	383,907.39
Bituminous coal,	35,504.15	Stone and lime,	58,400.95
Petroleum and other oils,	171,053.62	Live stock,	17,282.86
Pig iron,	193,522.88	Lumber,	97,372.50
Railroad iron,	62,358.87	Other articles,	700,223.83

Receipts.

MONTHS.	Passengers.	Freight.	Mail and express.	Coal.	Total.
December, 1875,	$41,950 94	$92,751 69	$4,048 25	$525,647 29	$664,398 17
January, 1876,	38,595 58	78,538 75	3,608 37	396,062 02	516,804 72
February, 1876,	33,533 00	84,918 12	3,372 92	134,887 31	256,711 35
March, 1876,	36,188 22	104,232 09	4,204 27	274,663 50	419,288 08
April, 1876,	37,261 75	103,588 42	4,251 06	559,230 78	704,332 01
May, 1876,	47,552 90	114,754 24	4,339 73	349,107 10	515,753 97
June, 1876,	57,738 68	93,392 72	16,192 30	453,195 84	620,519 54
July, 1876,	65,039 22	84,339 81	4,156 86	459,510 69	613,046 58
August, 1876,	69,365 19	98,873 01	4,071 20	468,460 27	640,769 67
September, 1876,	97,519 63	108,118 00	4,217 66	382,080 20	591,935 49
October, 1876,	124,635 62	115,944 56	4,546 70	479,014 30	724,141 18
November, 1876,	116,346 56	112,047 04	5,169 90	548,382 30	781,945 80
Total,	$765,727 29	$1,191,498 45	$62,179 22	$5,030,241 60	$7,049,646 56

Mining in the Anthracite Regions.

After a careful survey of the whole field, I am of the opinion that the primary cause of all the trouble in the mining regions grow out of the fact that there are too many miners, for the amount of coal demanded. Reliable statistics in the possession of this bureau show, that if all the miners that now reside in the anthracite coal districts were employed for ten months in the year, they would produce forty-five million tons, or nearly three times as much as the market demands. When trade was active, the coal sales never reached over twenty-three million tons, and it has, for the past five years, been reduced to fifteen or eighteen million tons. Statistics show that there are more miners in the coal regions *now* than in 1867 or 1868 or even in 1873, when the demand was at its maximum.

The sons of miners almost universally follow the same occupation. They do not *distribute* like the sons of men engaged in other trades, professions, or occupations. This is a peculiar characteristic of the mining class. While the sons of farmers frequently engage in mercantile, mechanical, or professional pursuits, it is not so with the miner's son; he enters the mines at a very early age. This causes surplus of labor, produces competition in the same, and weakens the whole system. The writer of this has a case in point illustrative of the position: In 1862, in a certain coal region of this State, a company were mining coal. They had, at that time, two hundred and twenty families at the works. There were then about one hundred and fifty miners. Ten years later, without any material change in the families employed, the number of miners was increased to nearly three hundred, or one hundred per cent. *During the ten years referred to, there were not a half dozen sons of miners that engaged in any other business, or sought any other trade or avenue for a livelihood.* It is believed a similar state of affairs exists in all mining regions.

The miners themselves are much to blame for not endeavoring to educate their sons to some other trade or profession, to *distribute* the same as other trades and professions do.

Here then is the sequel. This force is competing for the work which one third is capable of doing. In these depressed times, fifteen million tons of anthracite is all the market will bear, and here stands a working force sufficient to mine forty-five million. This aggregated force is combining and attempting to press the price of mining fifteen million tons up to the value of mining forty-five million.

The coal companies and operators, in self defense, are combining to fix the price for mining to correspond with the demand; hence the strike and collision. Herein lies the difficulty. What is the remedy? How shall matters be reconciled? are the problems to be solved. It is evident that if the course pursued for the past five years is persisted in, want and famine will ensue. The accumulations of the miners cannot withstand many more years of such depression and competition, and the fact presents itself with irresistible force that the miner must select some other trade or profession, or else suffer want and poverty.

All kinds of business in prosperous times is invariably overdone, and men rush as with a mania for that which presents attractions or a change. Notably is this the case on railroads. During a rush of business the roads have no difficulty in filling positions; boys from the country, especially, flock to the railroad centres. Once in the business they seem to be unfitted or have no taste for any other. A great surplus of railroad men is the result. Further remark is too obvious.

It is not necessary, however, for the miner to remove from these counties, as has been suggested. When Luzerne county contained a population of sixty thousand inhabitants, she produced sufficient bread stuffs to support two hundred thousand people. *Now*, when she contains over two hundred thousand people, she does not produce sufficient bread stuffs to feed seventy-five thousand; but relies upon adjacent counties in central and northern Pennsylvania and southern New York to furnish the deficiency, *which can be and ought to be* produced within her own limits. She possesses some of the finest agricultural lands in the Commonwealth, adapted to the raising of cereals and vegetables, and also for grazing and dairy purposes. These lands should be utilized. Instead of being compelled to purchase her provisions from other localities, and spending her money to enrich those who have no interest in common with her, she should set her sons to work upon the rich and alluvial soils of the valley, or the rolling and high lands of the county, thereby encouraging and enriching her own people.

There is no necessity for emigration to other States or localities. The number of unemployed men in Luzerne county, if set to work in agricultural pursuits, is sufficient to completely change the whole order of things, and ensure prosperity in all branches of industry. If any person has any doubts in relation to the source from which Luzerne county receives her supplies, investigation will prove the facts conclusively.

It will be found, by going up the Lehigh Valley road, that at various points before reaching the State line at Waverly, heavy shipments of produce are made into Luzerne. Chemung, Wellsburg, Elmira, Horse Heads, Millport, in Chemung county; Watkins, in Schuyler; Penn Yan, in Yates, and Canandaigua, in Ontario, New York, make shipments of farm products to Luzerne. North and east to Owego, Binghamton, Cortland, and Utica, parties are sending their products to Luzerne. West of Elmira, on the Erie railroad, Big Flats, Corning, Addison, Hornellsville, and Bath, the same thing is being done. Why should Luzerne suffer this when a large class of her people are idle, and many of her honest citizens in want? The writer is of the same opinion that he was in 1875, when he thus expressed himself on page 171, of the annual report of this bureau:

"Mechanics and artisans depend for their support upon the prosperity and ability of the community in which they reside to employ or pay them for their designs and labors. If they cannot be assured in this respect they are forced to seek some other source from which to obtain a livelihood. Before the miner that penetrates the sunless caverns of the earth can enter upon his work with prudence, he must *know* that the product of his toil is required, that it is demanded by the community or country at large. Without this assurance it is in vain that he has acquired a knowledge of subterraneous formations, and he might as well let his pick rust upon its handle as to pursue a calling that offers no compensation. The same is true of the operator. He will not invest his money where no return is offered. Neither will the manufacturer embark in a business where he cannot procure the raw material, coal or fuel, to drive his machinery or make sale of his products at a reasonable compensation. An establishment started upon any other security soon closes its doors, and the workmen are idle.

"The laws of demand and supply show conclusively the mutual dependence in trade, as well as in the social relations. No person can reasonably claim for himself or his occupation exclusive privileges, or justly compel other trades or professions to pay tribute to him. There must be a reciprocal adjustment in these affairs."

The strength of the American character lies in its power of adaptability to circumstances. If a mechanic or professional man is thrown out of employment in a certain branch which he has been pursuing, he should adapt himself to the circumstances, and seek employment in another channel. If the day laborer has been pursuing a certain vocation, instead of remaining idle because the particular calling in which he had been engaged had failed, let him seek some other source of employment, and nine cases out of ten he will be successful. He will at least succeed so far as to keep the wolf from his door, and be in a position to accept a better situation when it is offered.

PHILADELPHIA.

Its Industrial Establishments, Public Improvements, Permanent Exhibition, Valley of the Schuylkill, its Railroad Connections, etc.

Philadelphia is the great commercial metropolis of Pennsylvania. Ever since it was founded it has shown a steady increase in wealth and population. Its admirable location, at the base of the valley of the Schuylkill, and between the Delaware and Schuylkill rivers, its connections with the ocean by means of the Delaware bay, has contributed largely towards making it in point of population, wealth, and enterprise the second city of the western continent.

The great founder of Philadelphia and the State of Pennsylvania, early inculcated among the people of his province a spirit of commercial enterprise. Immediately after taking possession of his western forest, he laid the plan for the founding of a city, and also took steps to live in peace and harmony with the natives, from whom he early obtained their titles. He also sent messengers to foreign States to make treaties of commerce and amity. The following letter shows the spirit which animated the great founder of Pennsylvania:

"*To the Emperor of Canada:*

"The Great God that made thee and me, and all the world Incline our hearts to love peace and suffice that we may live friendly together as becomes the workmanship of the great God. The King of England who is a Great Prince hath for divers Reasons Granted to me, a large country in America which however I am willing to Injoy upon friendly terms with thee. And this I will say that the people who come with me are a just, plain and honest people that neither make war upon others, nor fear war from others because they will be just. I have set up a Society of Traders in my Province to traffick with thee and thy People for your commodities, that you may be furnished with that which is good at reasonable rates. And that Society hath ordered their President to treat with thee about a future *Trade* and have joined with me to send this Messenger to thee with certain Presents from us to testify our willingness to have a fair correspondence with thee. And what this Agent shall do in our names we will agree unto. I hope thou wilt kindly Receive him and comply with his desires on our behalf both with Respect to Land and Trade. The Great God be with thee. Amen.*

"WM. PENN,

"LONDON, the 21st day of the 4th month, called June, 1682.

"PHILIP THEODORE LEHMAN, *Sec.*"

---

*Copied from the original now on file in the Department of Internal Affairs, Harrisburg, Pa.

The foregoing epistle to the Emperor of Canada was indited nine months after the founding of the city of Philadelphia. It shows the diplomacy and enterprise of its author, and foreshadows the policy which, carried out in subsequent years, made the city of Philadelphia and the Proprietorship of Penn so prosperous. Its effects were felt in after years in the commercial relations of the city and State, not only in stimulating its various industrial interests, but pointing out the course pursued in developing its various mineral resources, projecting and completing its internal improvements.

Wage Population—Industrial Pursuits.

The entire wage population of Philadelphia is not less than two hundred and eighty thousand. Two hundred thousand of these are engaged in various mechanical, manufacturing, and industrial pursuits, and their employers have invested about two hundred and thirty million dollars.

The larger portion are supplied with as comfortable and neat abodes as can be found in any other city in America, or perhaps the world. This population with capital invested, by the aid of the enterprising and far-seeing capitalist, have extended the commerce of the city over the civilized world; have dug canals, constructed railroads and telegraphs, and established a character for enterprise of which every Pennsylvanian is justly proud. The early inhabitants were distinguished for their broad and liberal ideas. They early commenced extending their acquaintance and commercial relations. They instituted a system of public improvements, or rather a system of internal communication, and were greatly aided in other portions of the Commonwealth by coöperation in their enterprises. Post roads and turnpikes radiated in every direction, Philadelphia being the center. The canal system was then inaugurated, opening up the valley of the Schuylkill, through the counties of Philadelphia, Montgomery, Berks, and Schuylkill, and the construction of the Delaware division of the Pennsylvania canal. The subsequent era of railroads was marked by a spirit of enterprise in keeping with the character of its business men. Fortitude and financial courage were necessary. These were possessed in a high degree, and to-day the Philadelphian can point with pride to its past history and its present wealth and condition.

There is scarcely a public railroad in the State in which Philadelphia capital is not represented. Perhaps there have been times when their enterprises have been governed more by courage and hope than by sound financial discretion, yet the general result has been productive of good.

The city, too, in its municipal management, may have been excited to project improvements beyond the limit of actual necessities, expend moneys, and incur liabilities that cool and cautious financiers would not have done, yet when the spirit of public enterprise stands behind the officials urging them on to works of seeming public necessity, it is hard for those imbued with the same spirit to be held strictly in the groove which prudence and caution might dictate.

Its miles of street railways, broad and well paved avenues and streets, water and gas accommodations all speak well for the character of the city. But it is more from an industrial and commercial point we desire to speak. Although many industrial establishments are now in a depressed condition, still there are one hundred and forty thousand persons steadily employed, who earn from sixty-five to seventy-five millions dollars per annum, and produce various manufactured articles at an estimated value of $365,000,000. This estimate does not include the laborers in the various pursuits incident to a great city, but simply those producing some article of trade or merchandise.

Then there are about forty thousand who are employed three fourths of the time; forty thousand on half time; twenty thousand, quarter time; and twenty thousand who are entirely out of employment. These latter desire employment, but cannot obtain it. There are twenty thousand more who clamor for work, but will not accept it when offered.

The wage population of Philadelphia is classified in relation to time of service thus:

Full time,	140,000
Three fourths time,	40,000
One half time,	40,000
One fourth time,	20,000
Out of work entirely who wish to work,	20,000
Those who will not accept it,	20,000
	280,000

There are about twenty thousand who claim Philadelphia as their home, but who are itinerants, returning to the city occasionally. This latter class can be set down under the head of "tramps."

The problem now to solve is: How shall this great army of unemployed persons be enabled to sustain themselves? What measures shall be adopted to utilize this large amount of bone and sinew? What is necessary to set these ready and willing hands to work, at remunerative and living prices? Is legislation necessary? If so, what?

From the most reliable information, the preceding analysis of the *status* of labor in Philadelphia has been presented, and it is a state of things which must be met and considered. The cause of humanity demands it. Every consideration of political economy requires that this army of unemployed persons should be producing or earning a livelihood, at least, and not be a tax upon the Commonwealth, or a charity upon society.

Port of Philadelphia.

The following statement by articles and countries, of commodities, the growth, produce, and manufacture of the United States, exported to foreign countries from the port of Philadelphia during the year 1877, was prepared by Mr. F. T. Loes, lately connected with the Custom House, and furnished the *North American:*

ARTICLES.	Quantity.	Value.	Totals.
Austria.			
Petroleum, refined, gallons,	1,374,326	$203,216	$203,216
Belgium.			
Agricultural implements,		$1,200	
Anthracine, barrels,	189	7,616	
Barks,		3,770	
Books,		900	
Indian corn, bushels,	195,375	114,942	
Rye, bushels,	158,868	126,314	
Wheat, bushels,	307,000	442,539	
Cotton, pounds,	398,165	49,640	
Cotton manufactures,		1,710	
Drugs,		1,180	
Feathers,		33,518	
Fruits,		3,311	
Hair, and manufactures of,		29,119	
Grease, pounds,	110,351	6,812	
Hides,		4,125	
Iron manufactures,		20,300	
Leather,		126,571	
Petroleum: Crude, gallons,	395,740	39,217	
Refined, gallons,	9,070,907	1,367,074	
Naptha and benzine, gallons,	471,533	41,480	
Residuum, barrels,	500	1,689	
Paper,		6,592	
Provisions,		996,659	
Seeds,		4,478	
Sewing machines,		1,190	
Tallow, pounds,	1,050,308	100,591	
Tobacco leaf, pounds,	3,528,784	332,204	
Tobacco, manufactures,		38,335	
Wood: Cooperage,		6,635	
Manufactures,		3,495	
Miscellaneous,		128	3,913,334
Brazil.			
Wheat flour, barrels,	300	$2,200	
Cars, railroad,	203	220,479	
Carriages,		7,743	
Coal, tons,	587	1,612	
Drugs,		7,145	
Iron: Railroad bars, hundred weight,	6,560	13,120	
Locomotives,	34	378,215	
Machinery,		121,416	
Boilers,		3,000	
Other manufactures,		46,122	
Mathematical instruments,		2,280	
Rosin, barrels,	562	1,430	
Petroleum, refined, gallons,	20,500	3,770	
Oil cloth,		980	
Provisions,		1,260	
Telegraph apparatus,		1,620	
Tobacco manufactures,		1,400	
Wood manufactures,		5,151	
Miscellaneous,		10,894	829,847

ARTICLES.	Quantity.	Value.	Totals.
Central American States.			
Iron manufactures,		$25,100	
Miscellaneous,		313	
			$25,413
Chili.			
Coal, tons,	1,940	$6,638	
Cotton manufactures,		2,050	
Iron manufactures,		8,691	
Ordnance stores,		3,150	
Paper,		5,224	
Oil cloths,		1,283	
Provisions,		1,488	
Sewing machines,		787	
Sugar, refined, barrels,	292,614	28,876	
Boards,		6,900	
Wood manufactures,		888	
Miscellaneous,		8,925	
			74,900
Denmark.			
Indian corn, bushels,	103,084	$61,813	
Petroleum, refined, gallons,	1,669,802	258,868	
			320,681
Danish West Indies.			
Coal, tons,	3,678	11,502	
			11,502
France.			
Indian corn, bushels,	32,552	19,288	
Wheat, bushels,	20,487	26,300	
Petroleum, crude, gallons,	3,327,717	337,255	
Petroleum, refined, gallons,	208,881	41,762	
Naphtha and benzine, gallons,	561,427	54,176	
Tallow, pounds,	1,043,794	95,000	
Cooperage,		1,808	
			575,639
French West Indies.			
Flour, barrels,	1,860	13,980	
Other breadstuffs,		1,091	
Coal, tons,	1,508	4,605	
Petroleum, refined, gallons,	6,000	1,335	
Provisions,		6,551	
Boards,		4,250	
Cooperage,		19,307	
Miscellaneous,		1,525	
			52 644
Germany.			
Indian corn, bushels,	129,450	78,142	
Iron manufacctures,		3,741	
Petroleum, crude, gallons,	1,163,177	135,050	
Petroleum, refined, gallons,	12,358,086	1,986,066	
Naphtha and benzine, gallons,	260,165	19,448	
Provisions,		11,600	
Wood manufactures,		772	
Miscellaneous,		392	
			2,235 211
England.			
Animals, living,		133,850	
Bark,		3,480	
Bones, hundred weight,	5,908	10,300	
Boneblack, pounds,	243,185	4,550	
Books,		3,855	
Bread and breadstuffs:			
Indian corn, bushels,	2,966,542	1,783,210	
Wheat, bushels,	1,110,929	1,551,435	
Wheat flour, barrels,	22,539	143,309	
Other,		10,423	
Carbon, tons,	30	1,560	

ARTICLES.	Quantity.	Value.	Totals.
Cotton, pounds,	10,187,954	$1,267,994	
Cotton manufactures,		125,170	
Dentists' material,		43,367	
Drugs and chemicals,		92,866	
Fruits,		93,441	
Furs,		1,216,830	
Grease, pounds,	184,013	10,685	
Hair, unmanufactured,		12,730	
Hides,		81,996	
Horns,		1,197	
Hops, pounds,	287,225	41,407	
Iron manufactures,		96,244	
Jewelry,		5,500	
Jewelers' ashes,		3,600	
Leather and manufactures,		105,153	
Manganese, tons,	144	3,000	
Marble manufactures,		22,125	
Musical instruments,		1,870	
Oil cake, pounds,	9,981,271	172,872	
Oils:			
Petroleum, refined, gallons,	887,567	137,969	
Naphtha and benzine, gallons,	910,072	88,977	
Residuum, barrels,	8,542	30,810	
Lard, gallons,	82,123	56,797	
Other,		2,520	
Oilcloth,		4,552	
Paintings,		29,308	
Paper,		7,515	
Provisions,		9,228,284	
Rags, pounds,	21,026	1,705	
Seeds,		20,436	
Sewing machines,		30,599	
Shells,		2,650	
Soaps, pounds,	146,730	11,708	
Starch, pounds,	16,000	740	
Molasses, gallons,	24,705	4,770	
Tallow, pounds,	7,531,591	646,934	
Tobacco, leaf, pounds,	6,545,647	710,246	
Tobacco manufactures,		54,190	
Wax, pounds,	8,748	2,871	
Wood:			
Boards,		9,140	
Cooperage,		19,520	
Other,		50,540	
Wood manufactures,		4,029	
Miscellaneous,		4,159	
			$18,205 224
Scotland.			
Indian corn, bushels,	57,232	$35,539	
Oil cake, pounds,	308,486	5,031	
Molasses, gallons,	56,457	15,000	
			55,575
Ireland.			
Indian corn, bushels,	6,668,149	$4,095,558	
Wheat, bushels,	743,519	1,038,672	
Oil-cake, pounds,	1,245,244	21,792	
Petroleum, refined, gallons,	819,027	200,943	
Naphtha and benzine, gallons,	189,178	26,012	
			5,382,947
Gibraltar.			
Petroleum, refined, gallons,	2,612,088	$510,246	510,246
Nova Scotia.			
Bricks, thousand,	474	10,102	
Indian corn, bushels,	6,950	4,194	
Indian corn meal, barrels,	6,716	21,499	
Flour, barrels,	397	3,165	

ARTICLES.	Quantity.	Value.	Totals.
Coal, tons,	11,101	$38,456	
Machinery,	. . . .	5,287	
Miscellaneous,	. . . .	558	
			$83,261
British West Indies.			
Bread and breadstuffs:			
Bread and biscuits, pounds,	149,525	$6,564	
Indian corn, bushels,	61,375	43,597	
Indian corn meal, barrels,	23,391	73,996	
Oats, bushels,	23,292	10,834	
Flour, barrels,	38,773	263,940	
Other,	. . . .	787	
Candles, pounds,	13,141	1,752	
Coal, tons,	2,168	7,066	
Cordage, pounds,	5,512	732	
Cotton manufactures,	. . . .	4,349	
Drugs and chemicals,	. . . .	1,104	
Hemp manufactures,	. . . .	2,000	
Iron manufactures,	. . . .	2,967	
Leather and manufactures,	. . . .	2,371	
Matches,	. . . .	1,502	
Oil-cake, pounds,	2,923,038	60,980	
Petroleum, refined, gallons,	71,905	14,708	
Provisions,	. . . .	179,596	
Soap, pounds,	135,274	8,093	
Sugar, refined, pounds,	107,897	12,101	
Tallow, pounds,	7,775	970	
Tobacco, leaf, pounds,	431,481	55,086	
Tobacco manufactures,	. . . .	3,019	
Wood:			
Boards,	. . . .	3,904	
Cooperage,	. . . .	32,228	
Other,	. . . .	6,124	
Wool manufactures,	. . . .	1,400	
Miscellaneous,	. . . .	7,313	
			809,083
Other British Possessions.			
Petroleum, refined, gallons,	100,000	$18,150	
			18,150
Italy.			
Cotton manufactures,	. . . .	$1,200	
Rosin, barrels,	700	1,400	
Tar, barrels,	5,634	15,837	
Petroleum, refined, gallons,	7,373,718	1,228,654	
Residuum, barrels,	664	2,134	
Tobacco leaf, pounds,	85,200	18,000	
Wood manufactures,	. . . .	3,179	
Miscellaneous,	. . . .	1,186	
			1,271,590
Japan.			
Cotton manufactures,	. . . .	$400	
Petroleum, refined, gallons,	216,500	41,135	
			41,535
Mexico.			
Coal, tons,	2,000	$5,000	
			5,000
Netherlands.			
Rye, bushels,	33,000	$27,400	
Wheat, bushels,	54,162	70,551	
Petroleum, refined, gallons,	2,503,262	382,602	
			480,553
Dutch West Indies.			
Flour, barrels,	632	$4,808	
Other breadstuffs,	. . . .	2,574	
Cotton manufactures,	. . . .	1,091	
Fruits,	. . . .	679	

ARTICLES.	Quantity.	Value.	Totals.
Provisions,		$1,380	
Tobacco leaf, pounds,	7,030	861	
Miscellaneous,		2,832	
			$14,225
Peru.			
Coal, tons,	1,174	$3,522	
Iron manufactures,		2,235	
Boards,		8,371	
Wood manufactures,		750	
Miscellaneous,		250	
			15,128
Portugal.			
Bark,		$633	
Indian corn, bushels,	37,607	21,800	
Wheat, bushels,	310,760	447,485	
Wheat flour, barrels,	500	3,250	
Dyestuffs,		1,138	
Machinery,		2,500	
Rosin, barrels,	1,509	5,066	
Petroleum, refined, gallons,	712,781	127,848	
Tallow, pounds,	208,794	16,909	
Tobacco leaf, pounds,	356,353	33,463	
Cooperage,		57,565	
Miscellaneous,		1,106	
			718,763
Russia.			
Petroleum, refined, gallons,	358,278	$51,472	
			51,472
San Domingo.			
Coal, tons,	297	$743	
			743
Spain.			
Petroleum, crude, gallons,	209,978	$21,790	
Petroleum, refined, gallons,	436,734	95,225	
Naphtha, gallons,	5,000	650	
Miscellaneous,		17	
			117,682
Cuba.			
Agricultural implements,		$3,402	
Breadstuffs,		2,551	
Brooms,		1,468	
Carriages,		1,520	
Cars, railroad,		51,075	
Coal, tons,	42,805	151,311	
Cordage, pounds,	6,915	789	
Cotton manufacturers,		737	
Drugs and chemicals,		4,074	
Gas fixtures,		1,735	
Glass manufactures,		1,256	
Iron manufactures,		303,935	
Marble manufactures,		2,537	
Petroleum, crude, gallons,	92,929	14,194	
Petroleum, refined, gallons,	18,397	4,344	
Paper,		1,213	
Plaster, colored,		1,001	
Provisions,		15,027	
Wood:			
Boards,		69,072	
Cooperage,		420,684	
Other,		5,726	
Miscellaneous,		689	
			1,058,340
Porto Rico.			
Indian corn meal, barrels,	495	$1,627	
Wheat flour, barrels,	900	6,170	
Petroleum, refined, gallons,	13,000	2,470	

ARTICLES.	Quantity.	Value.	Totals.
Provisions,		$10,878	
Wood:			
Boards,		13,591	
Cooperage,		6,423	
Miscellaneous,		1,532	
			$42,691
Sweden.			
Rye, bushels,	4,745	$4,313	
Petroleum, refined, gallons,	306,040	42,001	
Naptha and benzine, gallons,	113,000	10,000	
Provisions,		8,015	
Miscellaneous,		383	
			64,712
Turkey and Africa.			
Petroleum, refined, gallons,	129,120	$21,305	
			21,305
United States of Colombia.			
Breadstuffs,		$828	
Coal, tons,	14,752	50,321	
Cotton, manufactures,		1,235	
Leather, manufactures,		1,323	
Wood, manufactures,		1,241	
Miscellaneous,		2,829	
			57,877
Venezuela.			
Beer, gallons,	2,273	$1,280	
Books,		3,873	
Bread and breadstuffs:			
Indian corn, bushels,	7,262	5,172	
Wheat flour, barrels,	34,544	260,069	
Others,		3,116	
Candles, pounds,	15,835	2,138	
Carriages and carts,		6,749	
Coal, tons,	943	3,870	
Cordage, pounds,	119,693	11,684	
Copper, manufactures,		54,063	
Drugs and chemicals,		37,003	
Gold coin,		42,930	
Iron manufactures,		1,772	
Marble manufactures,		1,282	
Medals,		1,810	
Provisions,		21,190	
Sugar, refined, pounds,	54,035	6,192	
Tallow, pounds,	969,186	89,818	
Tobacco, leaf and manufactured,		1,692	
Telegraph materials,		846	
Wood:			
Boards,		648	
Other,		734	
Miscellaneous,		2,011	
			554,942
Total,			$37,823,356

Exports.

The following is a summary statement of commodities, the growth, produce, and manufacture of the United States, exported to foreign countries, from the port of Philadelphia, during the year 1877:

ARTICLES.	Quantity.	Value.
Acids, pounds,	91,780	$2,518
Agricultural implements,		10,472
Animals, living,		134,610
Anthracine, barrels,	189	7,616
Bark,		7,883
Beer and ale, gallons,	2,500	1,375
Bones, pounds,	5,908	10,300
Boneblack, pounds,	258,465	5,110
Books,		9,367
Bread and breadstuffs:		
Bread and biscuit, pounds,	157,999	7,246
Indian corn, bushels,	10,271,423	6,254,473
Indian meal, barrels,	31,383	99,654
Oats, bushels,	24,898	11,522
Rye, bushels,	188,613	158,027
Rye flour, barrels,	328	1,528
Wheat, bushels,	2,546,857	3,577,132
Wheat flour, barrels,	100,726	703,104
Other breadstuffs,		11,042
Bricks, thousands,	475	10,152
Brooms,		2,473
Candles, pounds,	29,976	4,024
Carbon, tons,	30	1,560
Carriages and carts,		17,184
Cars, railroad, number,	255	261,554
Coal, tons,	82,963	283,204
Copper manufactures,		54,226
Cordage, pounds,	139,476	13,824
Cotton, unmanufactured,	10,681,119	1,317,734
Cotton manufactures,		140,278
Dentists' material,		43,985
Drugs and chemicals,		131,525
Dyestuffs,		2,484
Earthen and stoneware,		1,285
Fancy goods,		1,044
Feathers,		33,605
Fruits,		97,747
Furs,		1,216,896
Gas fixtures,		2,352
Glass manufactures,		2,958
Glue, pounds,	9,748	1,333
Gold and silver coin,		42,930
Greese, pounds,	297,091	17,850
Jewelry,		5,500
Hair and manufactures of,		41,849
Hemp manufactures,		2,187
Hides,		86,459
Hops, pounds,	287,398	41,459
Horns,		1,197
Iron:		
Bars, hundred weight,	5,077	8,910
Railroad cars, hundred weight,	35,327	66,811
Sheet, hundred weight,	381	1,768
Car-wheels,	1,357	51,249
Steam engines,	50	452,661
Boilers,		27,205
Machinery,		262,312
Nails,	479,280	15,086
Other manufactures,		151,258
Jewelers' ashes,		3,600
Leather and manufactures,		263,569

ARTICLES.	Quantity.	Value.
Manganese, tons,	144	$3,000
Marble and stone manufactures,		26,375
Matches,		2,027
Mathematical instruments,		2,484
Medals,		1,810
Musical instruments,		2,235
Naval stores:		
Rosin and turpentine, barrels,	3,101	8,968
Tar and pitch, barrels,	5,965	16,522
Oil-cake, pounds,	14,285,664	260,688
Oil-cloths,		7,154
Oils:		
Petroleum, crude, gallons,	5,220,501	547,606
Petroleum, refined, gallons,	41,280,536	6,741,566
Naphtha and benzine, gallons,	2,510,375	240,743
Residuum, barrels,	9,706	34,633
Lard, gallons,	83,747	58,361
Other,		3,920
Ordnance stores,		7,850
Paintings,		30,472
Paints,		1,942
Paper and stationery,		22,209
Plaster, calcined, barrels,	502	1,006
Provisions:		
Bacon and hams, pounds,	59,288,287	7,417,549
Beef, pounds,	4,567,874	260,974
Beef, fresh, pounds,	12,790,870	1,192,865
Butter, pounds,	1,383,009	261,878
Cheese,	1,654,428	216,734
Fish,		33,911
Lard, pounds,	8,190,580	843,071
Meats,		46,626
Oysters,		4,752
Pork, pounds,	2,086,361	193,066
Vegetables,		12,324
Rags, pounds,	21,683	1,861
Seeds,		25,232
Sewing machines,		32,937
Shells,		2,650
Soap, pounds,	301,487	20,656
Starch, pounds,	18,889	1,002
Sugar, refined, pounds,	456,688	47,418
Molasses, gallons,	81,282	20,448
Tallow, pounds,	10,817,623	947,766
Telegraph apparatus,		2,466
Tobacco leaf, pounds,	10,962,753	1,151,785
Tobacco manufactures,		97,734
Wax, pounds,	8,748	2,871
Wearing apparel,		2,361
Wood:		
Boards, thousand,	6,857	129,175
Cooperage,		568,111
Wood manufactures,		57,189
Wool manufactures,		4,034
Miscellaneous,		4,013
Total,		$37,823,356

Recapitulation.

Statement of the value of exports to the following foreign countries:

COUNTRIES.	In American vessels.	In foreign vessels.	Totals.
Austria,	$29,923	$173,293	$203,216
Belgium,	155,209	3,758,125	3,913,334
Brazil,	824,847	. . . .	829,847
Central American States,	25,413	. . . .	25,413
Chili,	59,823	15,077	74,900
Denmark,	. . . .	320,681	320,681
Danish West Indies,	10,575	927	11,502
France,	190,245	385,394	575,639
French West Indies,	45,221	7,423	52,644
Germany,	95,026	2,140,185	2,235,211
England,	9,913,643	8,291,581	18,205,224
Scotland,	. . . .	55,570	55,570
Ireland,	67,561	5,315,416	5,382,977
Gibraltar,	126,804	383,442	510,246
Nova Scotia,	12,607	70,654	83,261
British West Indies,	642,276	166,807	809,083
Other British possessions,	. . . .	18,150	18,150
Italy,	462,282	809,308	1,271,590
Japan,	41,535	. . . .	41,530
Mexico,	5,000	. . . .	5,000
Netherlands,	79,321	401,232	480,553
Dutch West Indies,	14,225	. . . .	14,225
Peru,	15,128	. . . .	15,128
Portugal,	322,247	396,516	718,763
Russia,	. . . .	51,472	51,472
San Domingo,	743	. . . .	743
Spain,	54,540	63,142	117,682
Cuba,	1,018,155	40,185	1,058,340
Porto Rico,	30,650	12,041	42,691
Sweden,	. . . .	64,712	64,712
Turkey in Africa,	. . . .	21,305	21,305
United States of Colombia,	48,321	9,456	57,777
Venezuela,	406,140	148,802	554,942
Totals,	$14,702,460	$23,120,896	$37,823,356

Clearances of Vessels.

The following is a statement of the nationality, value of cargo, and tonnage of vessels cleared during the year 1877:

NATIONALITY.	Number.	Tonnage.	Value of cargo.
American,	447	265,884	$14,702,460
Austrian,	45	27,630	1,145,713
Belgian,	15	36,587	2,462,090
British,	272	196,687	10,988,466
Danish,	11	3,487	85,237
Dutch,	2	335	23,252
French,	1	397	11,909
German,	49	30,933	1,454,345
Italian,	151	96,227	3,928,999
Portuguese,	6	1,956	122,848
Russian,	12	816	284,973
Spanish,	1	362	550
Swedish,	121	62,172	2,597,005
enezuelan,	1	284	15,509
Total,	1,134	730,959	$37,823,356

Nationality of Vessels.

Nationality of vessels entered into the port of Philadelphia during the year 1877:

NATIONALITY.	Number.	Tonnage.
American,	469	238,887
Austrian,	46	28,537
Belgian,	16	39,263
British,	277	199,016
Danish,	11	3,487
Dutch,	2	335
French,	1	397
German,	49	30,039
Italian,	152	98,649
Portuguese,	6	1,956
Russian,	12	8,016
Swedish,	122	63,322
Venezuelan,	1	284
Total,	1,164	712,188

Entrances and Clearances of Vessels.

Entrances and clearances of vessels from the port of Philadelphia, in the coastwise trade, during the year 1877:

MONTHS.	ENTERED.			CLEARED.		
	Crew.	Number.	Tonnage.	Number.	Tonnage	Crew.
January,	494	30	20,972	38	29,055	689
February,	1,065	69	41,271	83	54,810	1,455
March,	1,266	101	51,170	113	64,134	1,660
April,	1,526	137	56,666	120	63,712	1,735
May,	1,342	147	58,218	140	72,042	1,783
June,	1,482	129	62,631	140	71,801	1,821
July,	1,362	105	52,846	115	64,427	1,734
August,	1,263	112	51,997	112	65,619	1,653
September,	1,287	109	55,173	125	64,354	1,697
October,	1,234	110	51,257	115	59,424	1,522
November,	977	97	42,546	111	57,366	1,415
December,	1,061	86	45,967	114	64,865	1,581
Total,	14,369	1,234	590,714	1,326	731,609	18,745

Export of Petroleum from the Port of Philadelphia during the year 1877.

COUNTRIES.	CRUDE.		REFINED.		NAPHTHA AND BENZINE.	
	Gallons.	Dollars.	Gallons.	Dollars.	Gallons.	Dollars.
Austria,	.....	....	1,374,326	203,216		
Belgium,	395,740	39,217	9,070,907	1,367,074	471,533	41,480
Brazil,	.....	....	20,500	3,770		
Denmark,	.....	....	1,669,802	258,868		
France,	3,327,707	337,255	208,881	41,762	561,427	54,176
French West Indies,	.....	....	6,000	1,335		
Germany,	1,163,177	135,050	12,358,086	1,986,066	260,165	17,448
England,	.....	....	887,567	137,969	910,072	88,977
Ireland,	.....	....	819,027	200,943	189,178	26,012
Gibraltar,	.....	....	2,612,088	510,246		
Nova Scotia,	960	100	47	8		
British West Indies,	.....	....	71,905	14,708		
Other British Possessions,	.....	....	110,000	18,150		
Italy,	.....	....	7,373,718	1,228,654		
Japan,	.....	....	216,500	41,135		
Netherlands,	.....	....	2,503,262	382,602		
Dutch West Indies,	.....	....	1,000	225		
Portugal,	.....	....	712,781	127,848		
Russia,	.....	....	358,278	51,472		
Spain,	209,978	21,790	436,734	95,225	5,000	650
Cuba,	92,929	14,194	18,397	4,344		
Porto Rico,	.....	....	13,000	2,470		
Sweden,	.....	....	306,040	42,001	113,000	10,000
Turkey,	.....	....	129,120	21,305		
Total,	5,190,501	547,606	41,277,966	6,741,396	2,510,375	238,743

Total Export of Petroleum, Naphtha, and Benzine.

	1877.		1876.	
	Gallons.	Dollars.	Gallons.	Dollars.
Crude,	5,190,501	547,606	7,512,625	891,831
Refined,	42,277,966	6,741,396	55,107,836	10,583,115
Naphtha and benzine,	2,510,375	238,743	3,211,139	333,430
Total,	49,978,842	7,527,745	65,831,610	11,808,376

Exports of Breadstuffs.

A statement of the exports of breadstuffs, (including bread and breadstuffs, Indian corn, Indian cornmeal, oats, rye, and rye flour, wheat, wheat flour, and other grains,) and provisions, (including bacon, hams, beef, butter, cheese, fish, meats, oysters, pork, and vegetables,) from the port of Philadelphia during the year 1877:

COUNTRIES.	Breadstuffs.	Provisions.
Belgium,	$683,828	$996,659
Brazil,	2,320	1,260
Chili,		1,488
Denmark,	61,813	
France,	32,552	
French West Indies,	15,071	6,551
Germany,	78,142	11,600
England,	3,478,487	9,258,284
Scotland,	35,539	
Ireland,	5,034,230	
Nova Scotia,	28,858	
British West Indies,	399,718	179,596
Netherlands,	99,951	
Dutch West Indies,	7,382	1,380
Peru,		110
Portugal,	451,535	31
Cuba,	2,551	15,027
Porto Rico,	7,970	10,878
Sweden,		8,015
United States of Colombia,	1,650	159
Venezuela,	268,357	11,190
Total,	$10,689,954	$10,502,228
Total exports during year 1876,	15,995,215	12,218,149

International Exhibition.

The international exhibition, or as it is better known, as the permanent exhibition, in Fairmount park, was opened with due ceremony, May 10, 1877, in the main building of the centennial structure.

This enterprise was the outgrowth of the success of the centennial exhibition. It was believed by many Philadelphians, and other citizens throughout the country, that a permanent exhibition could be made a profitable and paying investment, beside contributing to the advancement of art and of the many industrial, commercial, mineral, and agriculinterests of the State and nation.

The company, in February, 1877, made the following announcement:

"The International Exhibition Company is an organization chartered by an act of the Legislature of the State of Pennsylvania, for the purpose of conducting industrial exhibitions of American and foreign manufacturers and works of art. The company has purchased, from the centennial board of finance and the United States centennial commission, the main exhibition building, which was used during the international exhibition of 1876, for the industrial palace. The company has also obtained from the Fairmount park commission the right for the building to remain intact and used for a continuous international exhibition. The centennial exhibition of 1876 served to bring to the notice of the general public many new and valued products, and to create a demand for many works of industrial fine art, which had not, heretofore, found a market in this country. It is the object and intention of the directors of the International Exhibition Company to endeavor to continue the good effects, derived from the centennial, by affording unusually favorable facilities to manufacturers and producers to bring their wares to the further notice of the public. Sales will be permitted in the building, under such conditions as will be advantageous for the accomplishment of this object. Samples of goods donated to and accepted by the International Exhibition Company, will be exhibited, and information given as to prices, quality, etc., if so desired, without charge. Exhibitors are not charged for space, but a commission of ten per centum will be charged on all goods sold that are on exhibition, for either immediate or future delivery. Acceptable goods sent to the company for exhibition and sale will be returned, as per regulations, if unsold, or if sold, a commission of ten per centum will be charged."

Classification of Groups.

1. Minerals, ores, building stones, marbles, artificial stones, metallurgical products, bar and sheet iron.
2. Glass, ceramics, terra cotta.
3. Chemicals, pharmaceutical preparations, medicines, oils, paints, varnish, soap, and perfumery.
4. Furniture, apparatus for lighting, fire and burglar proof safes, wooden and basket ware.
5. Apparatus for cooking and heating, laundry, kitchen, and bath-room appliances, manufactured parts of buildings.
6. Woven goods, ropes, and cordage, brushes, clothing, furs, artificial flowers, flags, traveling equipments.
7. Leather and shoe industry, harness.
8. Gold and silver ware, plated ware, bronzes, jewelry, gold pens and pencils, gold and silver foil, fancy articles.
9. Stationery, pens, pencils, paper, wall and felted paper.
10. Fire arms and ammunition, sporting implements.
11. Philosophical, scientific, chronometrical, electrical, and optical instruments, weights and scales.
12. Surgical and dental instruments and appliances.
13. Hardware, cutlery, hand tools, ornamental castings, plumber's materials, galvanized iron, and zinc work.
14. Carriages, vehicles and accessories.
15. Musical instruments.
16. Educational systems and appliances, publications, historical, and archaelogical collections.
17. Engineering and architecture, models, plans, etc.
18. Sculpture and paintings.
19. Engravings, lithographs, photographs, heliographs.

20. Art applied to industry, mosaics, stained glass, models, decorations.

21. Machines, tools, and appliances of mining, chemistry, and extractive arts, machines for manufacturing vegetable or animal products for food.

22. Machines and tools for working metal, wood, and stone.

23. Machines and implements used in sewing, spinning, weaving, and felting, washing machines.

24. Machines and apparatus for type-making, printing, lithographing, book, and paper-making.

25. Motors and apparatus for the generation and transmission of power, (water, steam, air, gas, electro-magnetic, &c.)

26. Railway plant, rolling stock, and appurtenances, aerial, pneumatic, and water transportation.

27. Agriculture and animal products.

28. Land and marine animal culture, and apparatus for same; living and preserved specimens.

29. Agricultural machines, implements, and processes.

30. Hotriculture.

The foregoing classification has been substantially carried into effect. The managers deserve great credit for the admirable taste they have displayed in arranging the exhibits in the various departments. Many who witnessed the gigantic and incomprehensible proportions of the centennial, the millions of spectators, and all the paraphernalia attendant thereupon, may have been in some degree disappointed when viewing the exhibits of the permanent exhibition. But this does not remove the fact, that the present one is a great industrial exhibition—such an one as has never before (the centennial excepted) been held on the western continent, and its continuance must have a very beneficial effect in stimulating internal trade and commerce, and affording a grand opportunity for all classes of persons engaged in art, mechanics, manufacturing, agricultural, or industrial pursuits to exhibit their productions, and exchange views upon all subjects pertaining to their several vocations. It is believed that business men in all sections of the State and country will see the utility of such an exhibition, and give it their influence and coöperation. It is a mammoth sample-house, and the impetus it will give to trade and commerce must necessarily redound to the interests of the State and Union.

The Valley of the Schuylkill.

Passing from the inclosures of the permanent exhibition, the cars of the Philadelphia and Reading railroad lead to the industrial centers along the valley of the Schuylkill, which find a market for their products in Philadelphia, and enter largely into the general commerce of the western world. The present generation can scarcely comprehend the difficulties encountered by the early projectors, in the work of utilizing the waters of the Schuylkill and converting them into channels of internal navigation. At this time, with all the modern appliances, a work like the Schuylkill canal would be deemed a matter of insignificant moment; but, at the time when this work was begun, it was a thing of stupendous magnitude. It laid the foundation, however, for the next great enterprise in internal improvements, and prepared the way for the construction of railroads, the great modern mode of commercial transportation and travel. Along the banks of the Schuylkill, for twenty miles from Philadelphia, are to be found cotton-mills, furnaces, rolling-mills, breweries, carpet, calico and other establishments, giving employment to a large number of men, women, boys, and girls.

In fact, it seems that the numerous towns and villages along the line of the Philadelphia and Reading railroad, in the valley of the Schuylkill, half way up to Reading, are suburbs of the great commercial center, Philadelphia. They enjoy all the advantages of country life, with the privileges incident to a metropolis.

The Philadelphia and Reading railroad, with its branches and leased roads, connect with many of the most important industrial centers of eastern and central Pennsylvania, and the anthracite coal regions, giving the people excellent facilities for travel, transportation and traffic. A perusal of the following tables, taken from the official report to the Secretary of Internal Affairs, will give the reader an idea of the immense business done for the years 1875, 1876, and 1877, at a time when many embarrassing obstacles, in the shape of depression in industrial pursuits, shrinkage of values, and labor strikes operated against them.

The following table will show the volume of traffic for the last four years, the great increase of passengers in 1876, having been due to the centennial exposition held in Philadelphia in that year. The coal traffic for 1877 has been larger than ever before carried, while the aggregate tonnage of all kinds, 11,833,826, has only been once exceeded in the previous history of the company, and excluding from the comparison of that year the excess of company's materials carried, the paying tonnage of the past year has been the largest ever known:

	1874.	1875.	1876.	1877.
No. of passengers carried, ...	6,964,869	6,938,129	10,936,157	6,674,889
No. of tons of coal, 2,240 lbs., ...	6,348,812	5,505,455	5,595,207	7,255,318
No. of tons of merchandise, 2,000 lbs.,	3,098,831	2,720,208	2,493,277	2,837,648
No. of tons co's materials, 2,000 lbs.,	493,591	581,984	482,222	313,981
Total tonnage of co's (2,000 lbs.,) including weight of passengers and company's materials, ...	11,336,261	10,099,040	10,236,326	11,833,826

Showing the Monthly Receipts, Passengers, and Tonnage of the Philadelphia

FROM.	December, 1876.	January, 1877.	February, 1877.	March, 1877.	April, 1877.
Travel, ...	$131,262 30	$119,239 88	$105,175 99	$123,430 75	$131,515 55
Freight on goods, ...	206,109 67	226,582 09	228,087 27	234,864 89	275,791 89
Freight and tolls on coal, ...	444,762 55	355,739 43	330,662 80	494,472 55	744,830 81
United States mail, ...	4,590 36	4,590 35	4,590 36	3,440 66	3,405 04
Miscellaneous receipts, ...	6,381 36	5,578 13	4,519 20	5,782 18	5,354 82
	$793,106 24	$711,729 88	$673,035 62	$861,991 03	$1,160,898 11
Number of passengers, ...	523,360	552,763	430,853	483,383	532,472
TONNAGE.	Tons.	Tons.	Tons.	Tons.	Tons.
Merchandise, ...	216,653.19	247,064.09	215,352.08	206,757.10	207,307.04
Coal—M. L. and Brs., ...	383,505.08	309,692.12	293,021.12	378,684.07	555,874.05
Coal—M. L., Brs., and Lats., . . .	418,032.13	343,747.11	321,655.12	421,288.11	661,478.02

and Reading Railroad Company for the year ending November 30, 1877.

May, 1877.	June, 1877.	July, 1877.	August, 1877.	September, 1877.	October, 1877.	November, 1877.	Totals.
$142,163 50	$140,194 63	$138,653 97	$149,960 83	$155,866 26	$144,959 27	$127,626 71	$1,610,049 64
254,647 81	233,366 38	184,006 91	301,369 99	265,788 86	323,289 21	179,682 69	2,913,587 66
744,308 52	643,711 43	584,672 67	788,396 34	901,104 88	853,299 32	619,246 04	7,505,207 34
3,433 52	3,433 53	3,433 52	2,571 25	2,571 24	2,879 41	2,648 28	41,587 52
7,241 92	6,607 78	6,460 85	6,417 37	6,250 47	6,429 84	5,453 99	72,477 91
$1,151,795 27	$1,027,313 75	$917,227 92	$1,248,715 78	$1,331,581 71	$1,330,857 05	$934,657 71	$12,142,910 07
582,155	587,290	609,055	588,929	682,731	612,263	489,635	6,674,889
Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
258,630.09	250,556.13	206,774.10	289,393.17	255,583.19	267,729.16	215,843.14	2,837,648.08
618,699.04	538,857.12	463,955.00	603,171.14	639,961.19	606,017.16	513,752.18	5,905,194.07
777,780.00	670,911.05	592,178.00	755,709.08	824,116.13	802,939.16	665,480.00	7,255,317.11

BUSINESS OF THE PHILADELPHIA AND READING RAILROAD FOR THE YEAR ENDING NOVEMBER 30, 1877.

Tonnage.

Coal Transported—Tons of 2,240 lbs.

WHERE RECEIVED.	Bituminous.	Anthracite.	Total.
From Broad Top coal region,	7,104		
" Westmoreland county and other points west of Huntingdon,	149,102		
Total,	156,206		156,206
LEHIGH AND WYOMING COAL:			
At Allentown,		47,881	
" Alburtis,		16	
" Oreland and Willow street,		10,840	
" Summit, Rupert, and Quakake,		403,961	
" Slatington,		51	
Total from Lehigh and Wyoming regions,		462,749	
MAIN ROAD:			
From Schuylkill, Northumberland, Columbia, and Dauphin counties,		5,286,239	5,748,988
Total main line and branches,	156,206	5,748,988	5,905,194

Number of tons hauled one mile, main road,	444,683,548	
Number of tons hauled one mile, lateral roads,	118,880,889	
Number of tons of coal hauled one mile, total,		563,564,437
Equal to through tons of coal hauled 95 miles,		5,932,257

Merchandise Transported—Tons of 2,000 lbs.

Total merchandise paying freight,		2,837,648
Number of tons of same hauled one mile, main road,	106,730,569	
Number of tons of same hauled one mile, branch roads,	41,231,392	
Number of tons of merchandise hauled one mile, total,		147,961,961
Equal to through tons hauled 93 miles,		1,590,989
Materials for use of road, including ballast, timber, rails, sills, stone, brick, &c.,		313,681
Total tonnage of road for year on main road and laterals, including weight of passengers, in tons of 2,000 lbs.,		11,833,826
Total amount of coal transported to date, tons of 2,240 lbs.,		98,345,221
Total tonnage of road to date, tons of 2,000 lbs.,		159,538,785

Passenger Travel.

Total number of passengers during year, ...	$6,674,889
" " " miles traveled by same, ...	74,315,237
Equal to, in through passengers, over whole length of road, ...	799,088
Total number of passengers to date, ...	65,901,810

Receipts of Road.

From freight and tolls on coal, ...	$7,505,207 34
" " on merchandise, ...	2,913,587 66
" passenger travel, ...	1,610,049 67
" transportation of U. S. mail and other sources,	114,065 43
Total receipts, ...	$12,142,910 07

Points of Supply and Distribution of Anthracite and Bituminous Coal on the Philadelphia and Reading Railroad and Branches for the year ending November 30, 1877.

		Paying Freight.	Company's Use.
Received from Schuylkill Valley Branch, . .	35,102.19		
Received from Mill Creek Branch, ...	86,295.05		
Received from Mahanoy and Shamokin Branch , ...	1,616,629.02		
Total at Port Carbon, ...		1,738,027.16	147,157.11
Received from Mount Carbon Branch, at Mount Carbon, ...		208,062.09	14,630.16
Received from Mine Hill and Schuylkill Haven Branch, at Schuylkill Haven, ...		1,762,148.01	150,684.01
Received from Lebanon and Tremont Branch, at Pine Grove, ...		563,381.19	4,783.02
Received from Little Schuylkill Branch, at Tamaqua, ...		642,968.13	54,394.18
		4,914,588.18	371,650.08
Received at Allentown, Alburtis, and Slatington, ...	47,948.01		
Received at Oreland and Willow Street wharf,	10,839.15		
Received at Summit, Rupert, and Quakake, .	403,960.18		
		462,748.14	
		5,377,337.12	371,650.08
Bituminous received at Harrisburg, Downingtown, Belmont, and New York Junction, ...		152,742.04	3,464.03
Total delivered on main line and branches, ...		5,530,079.16	375,114 11
Passing over laterals for shipment by Schuylkill Canal, ...	815,543.08		
Shipped west via Catawissa and Williamsport Branch, and Northern Central Railway, . .	422,413.10		19,431.12
Consumed on laterals, ...	92,734.14		
		1,330,691.12	
			394,546.03
Total paying freight, ...		6,860,771.08	
Total for Company's use, ...		394,546.03	
Total of all, tons of 2,240 pounds, ...		7,255,317.11	

Coal—Where Delivered on Main Line, Branches, and Laterals.

STATIONS.	ANTHRACITE.								BITUMINOUS.
	From Port Carbon.	From Mt. Carbon.	From Schuylkill Haven.	From Pine Grove.	From Tamaqua.	Lehigh and Wyoming.		Total.	From Harrisb'rg &c.
Tamaqua,					63.06			63.06	1,260.19
Catawissa and Williamsport Branch,						400,411.12		400,411.12	
Ringgold,					412.10			412.10	
Jonestown,	205.14	47.05	196.04	9,223.04				9,672.07	
Union Forge,		8.14	22.12	408.17				440.03	
Mifflin,				17.19				17.19	
Dauphin,	58.01	4.12	27.17	548.13				639.03	
Pine Grove,	75.00	4.09	35.16	255.06				370.11	25.52
Pottsville,									3,216.09
Landingville,	310.07	347.00	632.04					1,289.11	
Auburn,	361.01	137.04	813.05	246.06	4.12			1,562.08	
Port Clinton,			28.02	3.14	1,307.01			1,338.17	424.09
Hamburg,	322.18	471.07	433.14	159.08	189.14			1,577.01	65.13
Shoemakersville,	87.15	30.00	34.04	24.10	9.04			185.13	
Mohrsville,	683.05	9.07	207.19		97.10			998.01	
Leesport,	1,041.13	105.18	950.12	10.02	644.04			2,752.09	52.14
Tuckerton,	132.04		254.17		442.10			829.11	
Reading,	67,876.07	6,518.17	59,491.08	5,789.07	35,765.14			175,441.13	18,249.09
Berks and Lehigh Br.,	4,087.09	370.11	2,584.11	52.18	2,311.03	50.17		9,457.09	
East Pennsylvania and Allentown Branches,	57,579.02	3,772.06	30,355.03	883.05	23,727.18	528.07		116,846.01	11,679.02
Reading and Columbia Railroad,	51,018.06	7,052.14	63,307.01	30,838.02	21,570.12	11.04		178,797.19	137.12
Lebanon Valley Branch.									
Sinking Spring,	956.06	263.16	704.07	398.13	429.16			2,752.18	25.05
Wernersville,	1,347.19	36.02	446.04	485.16	766.02			3,082.03	68.08
Robesonia,	12,347.07	20.09	287.00	486.11	3,605.12			16,746.19	36.14
Womelsdorf,	785.16	390.00	670.00	329.17	610.19			2,786.12	42.05
Sheridan,	21,768.04	191.15	1,665.14	611.04	2,256.07			26,493.04	38.12
Richland,	1,751.10	521.19	258.05	686.01	161.06			3,379.01	

Myerstown, ...	1,502.18	1,362.19	651.13	3,880.02	325.12	. . . . . .	. . . .	7,733.04	189.08
Avon, ...	335.02	142.12	390.13	2,065.09	36.18	. . . . . .	. . . .	2,970.14	
Lebanon, ...	82,351.08	1,739.19	11,500.17	10,637.00	8,030.11	. . . . . .	. . . .	114,259.15	5,023.08
Annville, ...	1,255.01	825.19	462.15	3,601.06	185.00	. . . . . .	. . . .	6,330.01	72.19
Palmyra, ...	33.18	177.00	. . . .	1,549.12	20.14	. . . . . .	. . . .	1,781.04	63.03
Derry, ...	374.19	50.11	300.01	517.00	190.10	. . . . . .	. . . .	1,433.01	22.09
Swatara, ...	509.19	862.00	382.04	901.15	115.10	. . . . . .	. . . .	2,771.08	10.16
Hummelstown, . .	385.16	709.12	609.08	1,761.02	158.06	. . . . . .	. . . .	3,624.04	68.07
Harrisburg, ...	20,893.11	2,924.01	7,656.15	66,549.06	3,910.03	. . . . . .	. . . .	101,933.16	
Exeter, ...	176.09	8.16	66.00	. . . . . .	91.04	. . . . . .	. . . .	342.09	120.03
Birdsboro, ...	41,968.05	1,648.03	11,146.10	1,084.08	9,333.01	. . . . . .	. . . .	65,180.07	10,947.14
Monocacy, ...	1,307.04	67.09	2,865.10	25.16	32.12	. . . . . .	. . . .	4,298.11	
Douglassville, ...	297.00	509.15	472.09	3.18	582.09	. . . . . .	. . . .	1,865.11	27.11
Pottstown and Colebrookdale Branch, . .	19,892.19	1,541.05	10,315.10	581.10	5,003.05	. . . . . .	. . . .	37,334.17	23,445.08
Limerick, ...	1,225.17	286.14	591.14	3.14	227.10	. . . . . .	. . . .	2,335.09	210.18
Royer's Ford, ...	1,949.02	48.09	1,267.00	. . . . . .	443.12	. . . . . .	. . . .	3,708.03	77.17
Phœnixville and Pickering Valley Branch, . .	7,986.04	686.03	23,807.18	151.16	4,336.05	. . . . . .	. . . .	36,968.06	9,333.07
Perkiomen Junction and Perkiomen Branch, .	5,224.19	2,740.15	2,390.19	16.08	2,280.08	147.08	. . . .	12,800.17	205.10
Valley Forge, ...	161.19	44.13	510.10	. . . . . .	165.08	. . . . . .	. . . .	882.10	
Port Kennedy, ...	2,737.00	18.05	1,008.16	3.17	1,004.06	. . . . . .	. . . .	4,772.04	942.18
Bridgeport, Chester Valley Branch, and Norristown Branch, . . .	76,633.10	3,717.05	33,178.06	213.02	30,081.19	344.07	. . . .	144,168.09	36,970.00
West Conshocken, . . .	2,591.14	234.05	1,417.04	. . . . . .	819.08	. . . . . .	. . . .	5,061.11	11.01
Mill Creek, ...	491.04	245.07	607.11	. . . . . .	87.10	. . . . . .	. . . .	1,431.12	
West Manayunk, ...	3,295.07	250.01	1,978.06	698.02	954.04	. . . . . .	. . . .	7,176.00	
Philadelphia.									
West Falls, ...	5,235.19	89.01	8,807.14	5,873.06	691.14	. . . . . .	20,697.14	. . . .	16,070.13
Germantown and Chestnut Hill Br.,	146,612.00	3,452.07	57,071.09	11,149.11	66,057.09	15,354.10	299,697.06	. . . .	3,269.12
via Belmont, ...	120,823.19	10,478.13	52,352.11	12,146.10	53,868.01	25,930.01	275,599.15	. . . .	
via Columbia Bridge,	107,138.05	2,725.00	78,943.09	4,937.15	33,164.08	18,104.12	245,013.09	. . . .	5,191.19
via Richmond Br., .	50,813.10	14,987.00	84,848.05	14,348.10	14,855.02	1,865.16	181,718.03	1,022,726.07	5,444.00
South Amboy via Richmond Junc., for shipment, ...	28,681.19	7,101.16	50,791.18	12,127.14	10,154.08	. . . . . .	108,857.15		
Richmond, for shipment,	782,344.15	128,082.09	1,147,347.07	357,093.09	301,375.06	. . . . . .	2,716,243.06	2,825,101.01	
Total main line and branches, ...	1,738,027.16	208,062.09	1,762,148.01	563,381.19	642,968.13	462,748.14	. . . .	5,377,337.12	152,742.04

Coal—Where Delivered, &c.—*Continued.*

STATIONS.	ANTHRACITE.								BITUMINOUS.
	From Port Carbon.	From Mt. Carbon.	From Schuylkill Haven.	From Pine Grove.	From Tamaqua.	Lehigh and Wyoming.		Total.	From Harrisb'g, &c.
Passing over laterals, for shipment by Schuylkill Canal, ...	273,637.01	58,996.03	374,880.11	1,157.12	106,872.01	. . . . . .	. . . .	815,543.08	
Shipped west via Catawissa and Williamsport Br. and Northern Central Railway, . . .	. . . .	. . . .	*397,930.02	. . . .	. . . .	. . . . . .	†24,483.08	422,413.10	
Consumed on laterals, .	21,488.06	43,792.15	17,450.10	4,338.06	5,664.17	. . . . . .	. . . .	92,734.14	
For company's use, . . .	147,157.11	14,630.16	150,684.01	4,783.02	54,394.18	. . . . . .	†19,431.12	391,082.00	3,464.03
Total main line, branches, laterals, &c., ...	2,180,310.14	325,482.03	2,703,093.05	573,660.19	809,900.09	462,748.14	43,915.00	7,099,111.04	156,206.07
Add bitrminous, ...	. . . .	. . . .	. . . .	. . . .	. . . .	. . . . . .	. . . .	156,206.07	
Total of all, (tons of 2240 pounds,)	. . . .	. . . .	. . . .	. . . .	. . . .	. . . . . .	. . . .	7,255,317.11	

‡ Shipped west by Tamanend.

† Via Shamokin, 290,437.17. Via Locust Gap, 107,492.05.

Distribution of Anthracite Coal Shipped on the Schuylkill Canal during the year ending November 30, 1877.

CONSIGNED TO	From Port Clinton.	From Schuylkill Haven.	Total.
Schuylkill Haven,		17 00	17 00
Hamburg,		2,235 10	2,235 10
Shoemakersville,	86 00	740 00	826 00
Mohrsville,		275 00	275 00
Leesport,		2,424 00	2,424 00
Duncan's Canal,		57 00	57 00
Felix's Dam,		2,125 00	2,125 00
Leize's Dam,		257 10	257 10
Brooks' Dam,		290 10	290 10
Sheps' Dam,		160 00	160 00
Kissinger's Dam,		616 00	616 00
Reading,	213 10	20,152 10	20,365 10
Yost's Landing,		329 00	329 00
Birdsboro,		79 00	79 00
Monocacy,	706 00	12,510 00	13,216 00
Unionville,		82 00	82 00
Pottstown,		862 00	862 00
Frick's Locks,		281 00	281 00
Lawrenceville,		1,047 00	1,047 00
Spring City,		1,406 00	1,406 00
Royer's Ford,		10,354 00	10,354 00
Black Rock Dam,		372 00	372 00
Phœnixville,	173 00	1,134 00	1,307 00
Port Kennedy,	173 00		173 00
Norristown,		535 00	535 00
Conshohocken,		6,519 00	6,519 00
Spring Mill,		689 00	689 00
Manayunk,	178 00	37,593 00	37,771 00
Falls of Schuylkill,		1,785 00	1,785 00
Philadelphia, and points within the Capes of the Delaware,	46,045 00	194,066 10	240,111 19
Through Chesapeake and Delaware Canal,	5,017 00	24,233 00	29,250 00
Through Delaware and Raritan Canal,	55,201 00	382,937 10	438,218 10
Total, tons of 2,240 pounds,	107,872 00	706,164 00	814,036 00

Items of cost, in detail, of hauling Coal on the Philadelphia and Reading Railroad, for the year ending November 30, 1877.

Per round trip of 190 miles, from Coal Region to Tidewater, and back with empty cars; transporting average loads of 620.9 tons, and average through loads of 555.9 tons, of coal, of 2,240 lbs. each.

ITEMS OF COST.	No.	Description.	Average rate.	Amount.
Wages of engineer, ...	2	Days.	$2 98	$5 96
" " firemen, ...	2	"	1 98	3 96
" " conductor, ...	2	"	1 99	3 98
" " brakemen and signalmen, . . .	6	"	1 82	10 92
Anthracite coal for fuel, ...	11.3	Tons.	2 04	23 05
Oil and tallow for engine and tender, including lamps, ...	. . . .	Trip.	. . . . .	1 81
Oil and grease for company's cars, ...	. . . .	"	. . . . .	3 01
Repairs for engines and tender, ...	190	Miles.	5.4	10 35
" " company's coal cars, ...	. . . .	Trip.	. . . . .	53 84
Supplying water, ...	17	M. Galls.	6	1 02
Wood for kindling, &c., ...	.2	Cords.	3 95	79
Assistant engines at Falls grade, ...	555.9	Tons.	.5	2 78
Car couplers. time keepers, dispatchers, and all other contingent expenses, . . .	555.9	"	.81	4 48
				$125 95

Equal to 20.3 cents per ton, or 22.7 cents per ton carried through 95 miles.

Cost of Repairs and Renewals of Coal and Freight Cars, and Repairs of Passenger Cars on the Philadelphia and Reading Railroad, for the year ending November 30, 1877.

Coal and Freight Cars.

Wages of all mechanics, ...	$403,461 15
Timber, iron, steel, &c., ...	261,895 83
Superintendence, tools, paints, oils, &c., ...	42,469 59
Total, ...	$707,826 57

Passenger Cars.

Wages of all mechanics, ...	$53,137 13
Timber, iron, steel, &c., ...	44,801 89
Superintendence, tools, paints, varnish, &c., ...	6,251 43
Total, ...	$104,190 45

Philadelphia and Reading Labor Reports.

An examination of the railroad labor reports of the Philadelphia and Reading railroad made for the year 1874, 1875, and 1876, show as follows:

In 1874, the president of the company received $2,100 per month; in 1875, he received $945 for the same work, a decrease of $1,155 per month, or $13,860 per year, a modest fortune. In 1876, he received the same. The two vice presidents, received for the years 1874 and 1875, $750 per month, and in 1876, $600 per month, a decrease of $150 per month, or, $1,800 per year. The general solicitor, in 1874, received $625 per month;

in 1875, $333 33, and in 1876, the same, a reduction of $291 67 per month, or, $3,500 per year. And so the schedule of prices declines through all the principal officers of the road, with rare exceptions.

The locomotive drivers, or engineers, received in 1874, $3 14 per day, and in 1875, $2 83, and in 1876, $1 62 to $3 24, making an average of $2 43 per day, which would amount in a year of three hundred days, in a decrease of $212. The passenger conductors, in 1874, received $2 90; in 1875, $2 61, and in 1876, $2 57 to $3 06, an average of $2 81 per day. The force was increased from 69 in 1874, to 79 in 1875, and to 109 in 1876. The freight conductors in 1874, received $2 30; in 1875, $2 07, and in 1876, $1 53 to $2 66. Just how many received $1 53 per day, or $2 66 per day, of the 223 employed in 1876, is not stated; but in 1874, 287 conductors received $2 30, and in 1875, 278 received $2 07 per day.

In 1874, 1,034 brakemen received $1 98 per day; in 1875, the same number received $1 78 per day, a reduction of twenty cents per day; in 1876, there were 1,000 brakemen receiving from $1 22 to $2 12 per day. The number is not stated how many received the $1 22 per day, or the $2 12. Supposing there were an equal number of each class employed, the average would be $1 67, or, ten cents per day less than in 1875, or, thirty cents per day less than in 1874, amounting, in a year of three hundred days, to $90.

Firemen. In 1874, 450 firemen received $2 08 per day; in 1875, 399 received $1 87 per day; in 1876, 385 received from 99 cents to $2 16.

Trackmen, in 1874, received $1 35 per day; in 1875, $1 16; in 1876, from $1 10 to $1 25, a better average than in 1875.

Reading.

Reading is situated on the Schuylkill river, fifty-two miles from Philadelphia, and contains a population of nearly forty thousand inhabitants, and in the third agricultural county (Berks) in the State. It is a great manufacturing and railroad center, and furnishes employment to many thousand persons. It is also in the heart of extensive iron ore beds, and one of the distributive points for anthracite coal, as well as depot for supplies for the coal districts. From this point several roads diverge, all operated by the Philadelphia and Reading Railroad Company. Its educational institutions are numerous, and rank among the best in the State.

Philadelphia and Reading Railroad.

The Philadelphia and Reading railroad is a corporation of great magnitude, most favorably situated, the main line and branches passing through a very rich mineral and agricultural portion of the State. Its connections bring all parts of the State into direct communication with Reading and Philadelphia. Its unfortunate troubles in August last, its losses by riot and fire, are a record of the past, and familiar to all. It is hoped the future will never witness such scenes. The matter is, at this writing, undergoing judicial and legislative investigation, and it would be premature to express any opinions as to the causes.

SLATE.

The magnitude and importance of the slate interests in the counties of Northampton and Lehigh, are not generally known and appreciated in Pennsylvania. While other industries in the valley of the Lehigh have been in a depressed condition, the business of quarrying and preparing for market the product of the State quarries have quietly and steadily increased. The great variety of slate to be found in these counties enable those engaged in the business to successfully compete, not only in this country, but in the market of the old world. It is comparatively but a few years since the Welsh school slates were to be found in every schoolroom in the United States. Now the manufacturers of school slate in the Lehigh valley not only furnish the demand in this country and Canada, but import them directly to England, Wales, and Australia.

The slates in the counties referred to are used for a great variety of purposes, such as roofing and flagging, for billiard, bagatelle table, and counter tops, imposing stones, blackboards, cisterns, lintels, window sills, copings, ridge poles, stairways, floors, tiles, *fence posts*, burial cases, school slates, etc., etc.

D. D. Jones, Esquire, of Slatington, in answer to a communication from this bureau, says:

I find there are in the vicinity of Slatington, on the east and west side of the Lehigh river, about thirty slate quarries in operation, working, in various capacities, from six to seventy-five men each, employing in the aggregate some four hundred and fifty men, and producing annually about one hundred and ten thousand squares of roofing slate, worth at the quarries in the vicinity of $360,000. Most of these quarries are owned in fee by individuals, several by corporations, and a number on royalty, paying to the owner of the land a certain sum per square for all slate taken out.

The following table shows the sizes of roofing slate, and the number of each size in one square. A square is the number required to cover 100 feet, or 10 feet square, the surface exposed to the weather only being charged for:

Sizes.	No. in one square.	Sizes.	No. in one square.	Sizes.	No. in one square.
12 by 7, . .	457	16 by 10, . .	221	22 by 11, . .	138
12 by 8, . .	400	18 by 9, . .	213	22 by 12, . .	126
14 by 7, . .	374	18 by 10, . .	192	22 by 13, . .	116
14 by 8, . .	327	18 by 11, . .	174	24 by 12, . .	114
14 by 9, . .	291	20 by 10, . .	169	24 by 13, . .	105
16 by 8, . .	277	20 by 11, . .	154	24 by 14, . .	98
16 by 9, . .	246	20 by 12, .	141	28 by 14, . .	82

There are also nine school slate factories in the vicinity of Slatington, which produce annually about thirty-five thousand cases, or three million three hundred and sixty thousand single slates, worth $175,000. The rough school slates are taken from the quarries, smoothed and framed at the factories, and are worth at the quarries about $10 00 per thousand. There are five factories in operation, also in this locality, for the manufacture of mantels, shelves, bath tubs, pavements, and similar work for architectural and mechanical purposes. The production of roofing slate has lately become an article of export. Last year there was shipped to Europe and Australia about one hundred thousand squares, two thirds of which was sent from this vicinity, the balance from near the Delaware, in Northampton county, and some from the State of Vermont.

A large portion of the manufactured school slate from this vicinity are finding sale in Europe, and when put in competition with foreign slate are considered superior to any made elsewhere, both as to the texture of the stone and the general workmanship.

Machinery Used in the Manufacture of School Slate.

The entire machinery for framing school slate is very simple, consisting mostly of small circular saws, cutting the boards into strips, grooving the edges to receive the slate. The level edge of the frame, the tenanting, rounding of the corners, etc., is all done with saws. The smoothing and finishing of the frames is done with a set of knives, fixed on a rapidly moving or revolving table, under which the slate passes. The smoothing of the slate or stone is done by hand, with a set of shaving knives, similar to the old fashioned mode of shaving shingles.

Slate Reports.

Henry Williams, manufacturer roofing slate, Slatington, Lehigh county, Pa.

Value of annual product, $33,800; whole number of persons employed, 55; capital employed in the business, about $30,000; amount paid annually for wages, $20,800; materials used in the business, $6,000. Classification of labor—wages paid per day, 1 foreman, $2 00; 18 skilled workmen, $2 00; 4 boys, $1 25; 24 laborers or rubbish men, $1 30; 2 engineers, $1 70; 5 strikers, $1 50; 1 carpenter, $1 50; hours worked per day, 10; days worked during the year, 299.

Jones & Williams, manufacturers of roofing slate and pavements, Slatington, Lehigh county, Pa.

Value of annual products, $43,820 21; whole number of persons employed, 75; capital employed in the business, $35,000; amount paid annually for wages, $26,800. Classification of labor—2 foremen, $2 00 per day; 3 boys, 50 cents; 4 apprentices, paid according to amount of slate dressed; 32 skilled workmen, $1 90 per day; 3 engineers, $1 50; 1 carpenter, $1 60; 5 strikers, $1 60; 25 laborers, $1 30; hours worked per day, average $9\frac{3}{4}$; days worked during the year, 302.

The material is produced in the shape of the slate rock, and then converted into roofing slate and flagging for pavements, the value of which is reckoned at about one eighth of the market price of the article produced therefrom.

Henry Kuntz, manufacturer roofing slate, Slatington, Lehigh county, Pa.

Value of annual product, $6,854; whole number of persons employed, 233; capital employed in the business, $20,000; amount paid employés annually, $5,902; materials used in the business, $328. Wages paid employés per day, on an average, $1 30.

REMARKS.—The quarry has been worked to disadvantage the past year, and the expenses have been nearly as much as the value of the production.

David Williams & H. W. Harper, Slatington, Lehigh county, Pa.

Value of annual product, $38,000; number of persons employed, 20; amount of capital employed in business, $20,000; annually paid for wages, $14,500; paid for materials used in business, $10,000; daily wages paid men, $2 15; days worked during the year, 313.

The company manufacture roofing slate and mantel stuff. The business is good, the demand being nearly equal to the possibility to supply, owing to a large European trade.

Columbia Slate Company, Slatington, Lehigh county, Pa.

Amount of annual product, on an average, $20,000 per year; number of persons employed, on an average, 35; capital employed in the business, $6,000; amount paid annually for wages, $15,000. Wages per day—12 quarrymen, at $2 00; 5 blasters, at $1 50; 18 rubbish hands, at $1 10; 4 boys, at 75 cents; hours worked per day, 10. In operation during the year.

REMARKS.—The slate trade has been very brisk for the year ending 1876. Most of the shipping was for exportation. The foreign demand for roofing slate and actual shipments commenced in the spring of 1876, and has continued so up to the present time. There seems to be less demand just now, and may discontinue shipments for a time, on account of this foreign war. Freights being higher and unsettled, also, the States and their business being such that they do not feel disposed to buy.

The home trade picked up a little, and the prospect for western shipments, after harvest, are medium.

The great west has used a large quantity of roofing for the last six years preceding 1875. For last year and up to the present time they have not used so many, for causes which affects us in the east, and the country generally.

We believe that if silver is made equal as a metal in payment of bonds, United States, &c., and proper confidence would be established among the business communities, with rigid economy, honesty, integrity, all over the country, in the highest as well as in the lowest offices, the country would get along nicely. There is really no reason or good cause that so many people are out of employment, in such a country as ours. We have all the resources in this country, vegetable and mineral, to make it give employment to all classes of people, if things were in their proper shape and under proper management.

Dr. A. P. STECKEL,
Superintendent.

The Locke Slate Company, Slatington, Lehigh county, Pa., manufacturers of roofing slates, school slates, flagging, tiling, steps, window sills, burial cases, urinals, &c.

Value of annual product, $44,458; number of persons employed, 72; capital employed in business, $75,000; paid annually for wages, $27,395 05; paid for materials used in business, $6,509 82. Classification of wages: 1 factory foreman, $2 25 per day; 14 men, $1 52; 6 boys, 60 cents; 2 quarry foremen, $2 41; 18 men, $1 96; 17 laborers, $1 22; 4 boys, 50 cents; 1 carpenter, $2 23; 1 blacksmith, $2 25; 1 apprentice, $1 10; 6 blasters, $1 56; 1 engineer, $1 80. Hours per day, 10; average days in year, 244½.

The roofing slate trade was brisk during the year 1876, owing to European demand, but at low prices. School slates are very low, owing to competition.

David Williams, school slate manufacturer, Slatington, Lehigh county, Pa.

Value of annual product, $20,000; whole number of persons employed, 30; capital employed in the business, $25,000; amount paid annually for wages, $16,000; amount paid for materials used in business, $2,000. Wages per day: 25 men, $1 50 per day, and 5 boys at 50 cents per day. Hours worked per day, $10; days in operation during the year, 313.

REMARKS.—Trade is rather slow. A large quantity of slate is put out, but prices are very low, owing to competition, so that it hardly pays to manufacture. The high rate of freight to the West and Europe, where the principal trade lies, has much to do in keeping business down.

The Chapman Slate Company, Chapman, Northampton county, Pa., manufacturers of roofing slate and flagging, billiard, bagatelle table, and counter tops, imposing stones, blackboards, cisterns, lintels, window sills, copings, ridge poles, stairways, floor tiles, and building stones for all purposes.

This is the largest and most extensively worked slate quarry in America. Capital stock in the roofing slate business, $400,000, to which may be added $40,000 for machinery for other branches in the business. Average annual value of products, $180,000; number of men employed, 225.

Among the machinery in their extensive shops may be mentioned a diamond pointed saw, for cutting slate, costing several thousand dollars.

The Quarry.—The length of the opening is 700 feet; depth, 225 feet; width, 450 feet; supplied with engines, derricks, and all the appliances for hoisting and handling the blocks.

◆

LEAD.

C. F. Welles & Co., (formerly B. A. Fahnestock & Co.,) Pittsburgh, Pa.

Value of annual product, $175,000; whole number of persons employed, 31; capital employed in the business, $100,000; amount paid employés, annually, for wages, $15,000; amount paid for materials used in the busidess, $115,000; wages, ranging from $1 50 to $5 per day; hours worked per day, 10; in operation during the year.

Remarks.—These works were established by B. A. Fahnestock, in 1844, and have been in continuous operation since then, establishing a reputation during that time for its product of white and red lead, which has made its name synonomous with purity and excellence.

The principal trade lies in the middle and western States, and although greatly hampered of late years, owing to unjust freight discriminations, it has steadily pushed along, and is holding its own, but under more favorable circumstances, and with Pittsburgh's interests better protected, it could double its trade without any great effort.

In the corroding of lead, what is known as the Dutch process is employed, and the pig-lead used, is derived mainly from Galena, Illinois, and

Irplin, Missouri; also, the product of the Pennsylvania Lead company, who procure their ores from Utah.

T. H. Nevin & Co.; post-office, in Pittsburgh; establishment located in Allegheny county.

Value of annual product, $88,000; 20 persons are employed, on an average; capital employed in the business, $50,000; amount annually paid for wages, $6,000; amount paid for materials used in the business, about $70,000.

REMARKS.—We manufacture white and red led, and grind same in oil; also, grind colors in oil. The business is beginning to look up, and we think there is a general feeling of better times in the immediate future.

T. H. NEVIN & CO.

Beymer, Baumer & Co., Pittsburg, Pa.

Value of annual product, $300,000; whole number of persons employed, 40; amount of capital employed in the business, $250,000; amount annually paid for wages of employés, $20,500; paid for materials used in business, $192,000.

REMARKS.—The business of this firm is the corroding, by the old Dutch process, and manufacture of white lead, red led, or any mineral putty and colors.

It was established in 1867, and is located in Allegheny City.

It consumes, annually, from 1,000 to 1,500 tons pig-lead, delivered principally from the Missouri and Galena mines, and desilverized lead made from Utah ores, by the Pennsylvania Lead company.

The product is shipped to nearly every State of the Union, and, latterly, quite extensive shipments have been made to Brazil.

Trade for the year 1876, compares favorably with previous years, and would have been in excess, but for the disturbed condition of the country during the autumn months.

The white lead business in this city might be greatly extended, were it not for the discrimination in rates of freights against us by the railroad companies. As it is, we have been compelled to relinquish trade in sections, which were, in former years, large buyers here.

Pennsylvania Lead Company, Pittsburgh, Pa.

Value of annual product, $1,019,185 81; whole number of persons employed, 87; capital employed in the business, $250,000; amount paid annually for wages of employés, $56,818 13; material used in business, $582,125 78; railroad freight, $212,041 04. The working force consists of 1 manager, 1 assistant manager, 1 assayer, 1 assistant assayer, 1 shipper, 1 weigh-master, 3 clerks, 60 furnace men, at from $2 25 to $3 00 per day; 18 laborers, at $1 35 per day.

When the works are in operation, they are always run double turn, and during 1876, ran 590 days of 12 hours.

REMARKS.—Product for 1876 was: Refined pig lead, 4,083 tons; refined silver in bars, 390,000 ounces; refined gold, 740 ounces. This was produced from the argentiferous lead ores of the far west, and, owing to the great distance it required to be transported, the item of freight is an exceedingly important one. It is a comparatively new industry in the United States, but one which is growing very rapidly.

The lead product was consumed entirely by white lead manufacturers, for which purpose it is especially prepared.

Fahnestock White Lead Company, Pittsburgh, Pa.

Value of annual product, $150,000; whole number of persons employed, 28; amount of capital invested in the business, $160,000; amount paid annualy for wages, $13,000; amount paid for material used, $105,000. Wages—26 men, on an average of $1 75 per day; 1 woman, $1 .00; and 1 youth, at $1 25 per day.

Our establishment manufactures exclusively white and red lead. On account of the wonderful falling off of the improvements in the shape of buildings, the white lead trade for the past two or three years has not been so good as formerly, and since white lead or paint is in some measure regarded as a decoration, and on a strain can be dispensed with, even those buildings that would really be benefited have been allowed to remain unpainted, waiting for better times. We hope, however, with abundant crops, to see a much better demand for our product this fall than we have had for several years.

Very truly,

BENJAMIN F. VANDEVORT,

Treasurer.

ZINC.

Lehigh Zinc Company, Bethlehem, Northampton county.
Establishment located in Northampton county.
Value in dollars of annual product, $437,843 52.
Whole number of persons employed, 273.
Amount of capital employed in business, $1,000,000.
Amount paid annually for wages of employés, $104,585 22.
Amount paid for materials used in business, $225,871 28.

Occupation and Classification.	Number of men.	Number of youth.	Daily wages paid men.	Daily wages paid youth.	Hours worked per day.	Days in operation during year.
Foremen,	8	. .	$1 60 to $1 40	. . . .	12	365
Engineers,	5	. .	1 60 to 2 00	. . . .	12	365
Firemen,	3	. .	1 00 to 1 05	. . . .	12	365
Machinists,	4	. .	1 60 to 4 00	. . . .	10	313
Blacksmiths,	3	. .	1 50 to 2 00	. . . .	10	313
Carpenters,	2	. .	1 75 to 2 10	. . . .	10	313
Bricklayers,	1	. .	1 80	. . . .	10	313
Coopers,	6	. .	1 25 to 1 45	. . . .	10	313
Carters and Laborers,	20	. .	90 to 1 00	. . . .	10	313
Oxide makers,	80	6	90 to 1 10	$0 50 to $0 80	12	312
Spelter makers,	110	5	90 to 2 25	50 to 80	12	365
Sheet zinc rollers,	14	6	1 25 to 3 00	40 to 75	12	295

Remarks.—Works have been in operation during the entire year, stopping only for necessary repairs. Sales of oxide of zinc have been moderate, at fair prices. Spelter and sheet zinc have been dull of sale, at low prices, owing mainly to sharp western competition.

J. M. LEIBERT,
Secretary Lehigh Zinc Company.

STONE-WARE.

Cowden & Wilcox, Harrisburg, Dauphin county.
Establishment located in Harrisburg, Dauphin county.
Value in dollars of annual product, $13,000.
Whole number of persons employed, 10.
Amount of capital employed in business, $10,000.
Amount paid annually for wages of employés, $5,000.
Amount paid for materials used in business, $5,000.

OCCUPATION AND CLASSIFICATION.	Number of men.	Number of youth.	Daily wages paid men.	Daily wages paid youth.	Hours worked per day.	Days in operation during year.
Foreman,*						
Turners,	3	.	$2 00 to 4 00	. .	10	300
Kiln setters,	2	1	1 40	$1 00	10	300
Laborers,	2	.	1 00 and 1 40	. .	10	300

*Proprietors.

CHARACTERISTICS OF ESTABLISHMENT.—Our business is the manufacture of vitrified ware, or stone-ware, for use of farmers and dairymen for holding butter, milk, apple-butter, &c.

Stone-ware is more generally used than formerly, it being much superior to the old-fashioned red earthen-ware, both on account of its durability and its purity. It will not decay, and resists the action of acids, which cause the body of the ware to remain pure after frequent usage. We formerly burnt our ware with wood, but since 1873 have been using anthracite coal, bituminous coal, and wood, using them in the order mentioned, which causes a saving of fuel to us.

The Harrisburg Pottery was established about twenty-five years ago, and was the pioneer establishment in the stone-ware business in central Pennsylvania, but has now several competitors. However, the demand for this class of goods has greatly increased. The present firm took charge of the business in January, 1861.

COWDEN & WILCOX.

FIRE-BRICK.

Ritter & Saylor, Allentown, Lehigh county.

Establishment located in Allentown, Lehigh county.

Value in dollars of annual product: $90,000 to $100,000 before the panic; at present about one half.

Whole number of persons employed: About 80 persons before the panic; at present about one half.

Amount of capital employed in business, $60,000.

Amount paid annually for wages of employés: $20,000 before the panic; now about $8,000 or $9,000.

Amount paid for materials used in business: We use clay, kaolin, sand, burnt brick, coal, &c. Clay alone, including freight, amounts to about $15,000 in former times.

Wages—Men at $1 per day; 12 youths at from 40 cents to 60 cents per day; hours worked, 10; in operation 10 months in the year.

◆

CARRIAGE FACTORIES.

C. Coleman & Son, Allegheny City and Pittsburgh, Pa.

Value of annual product, $30,000 to $60,000; average number of persons employed, 50; capital employed in business, $35,000 to $40,000; wages paid employés annually, $10,000 to $15,000; paid for materials used in business, $8,000 to $12,000.

Classification of wages—30 to 50 men, $1 25 to $2 75 per day; 5 to 10 youths, $2 50 to $7 50 per week; 1 or 2 apprentices, $2 50 to $7 50 per week; days in operation during year, 300; hours work per day, 10.

This firm are manufacturers of buggies, Jagger and Dexter wagons and carriages, spring wagons, farm wagons, carts, wheelbarrows, dump carts and contractors' supplies.

Lewis Le Grand, Wilkes-Barre, Luzerne county, Pa.

Value of annual product, $18,000 to $20,000; number of persons employed, 14; capital employed in business, $20,000; paid for materials used in business, $8,000.

Classication of wages—9 men, $1 90 to $2 25 per day; 5 apprentices, $25 per year and board; hours worked per day, 10; days in operation during year, 311; shop 160x160 feet, two stories high, brick. Slow sale for carriages, but trade improving.

Klein, Ernst & Gabriel, Pittsburgh, Pa.

Value of annual product, $10,000; number of persons employed, 12; capital employed in business, $4,000; paid annually for wages, $3,500; paid for materials used in business, $4,000.

Classication of labor—2 blacksmiths, $2 25 per day; 2 apprentices, 75 cents; 2 wood workers, $2 00; 1 apprentice, $1 16; 2 painters, $2 00; 2 apprentices, $1 00; 1 trimmer, $2 25; hours worked per day, 10; days in operation during the year, 300.

The firm manufacture carriages, buggies, and wagons.

David Grim, Pittsburgh, Pa.

Value of annual product, $7,000; number of persons employed, 5; capital employed in business, $2,500; paid annually for wages, $2,500; paid for materials used in business, $3,000.

Classification of wages—4 men paid by the piece; 1 apprentice, board and clothes.

Manufacture light buggies, buck wagons, &c.

West & Vogler, Allegheny City, Pa.

Value of annual product, $7,709 59; number of persons employed, 7; capital employed in business, $4,000; annually paid for wages, $4,510 99; paid for materials used in business, $2,608 75.

Classification of wages—2 painters, $2 25 to $4 25, (piece work;) 1 blacksmith, $2 50; 1 helper, $1 00; 1 wood worker, $2 25; 1 trimmer, $3 00, (piece work;) 1 general hand, average, $4 25, (piece work;) hours worked per day, 9 to 10; days in the year, 305.

Pittsburgh Wagon Works, Allegheny, Allegheny county, Pa.

Value of annual product, $50,000; number of persons employed, 30; capital stock, $75,000; paid annually for wages, $16,343; paid for materials used in business, $13,908

Classification of wages—28 men, $1 33 to $2 20 per day; 2 apprentices, 75 cents; hours worked per day, 10; full time.

The past year has not been a fair criterion. The principal trade is with the south, in plantation wheel work, wagons, carts, drays, &c. Have only run at half the capacity.

Gustavus A. Schnabel, Pittsburgh, Pa.

Value of annual product, $5,219 76; number of persons employed, 7; capital employed in business, $2,629 32; annually paid for wages, $2,634 18; paid for materials used in business, $2,330 97.

Classification of wages—1 blacksmith, $3 00 per day; 2 helpers, $1 25; 1 wood worker, $2 50; 1 painter, piece work, about $2 50 per day; 1 apprentice, 67 cents; 1 trimmer, piece work, about $2 50 per day; extra force—1 blacksmith, $1 67; 1 wood worker, $100; average hours per day, 10; days in year, average 300.

POWDER.

Laflin Powder Manufacturing Company—Wilkes-Barre.

Establishment located in Luzerne and Carbon counties.

Value in dollars of annual product, $\$60{,}295\frac{80}{100}$.

Whole number of persons employed, 26.

Amount of capital employed in business, $300,000.

Amount paid annually for wages of employés, $8,700.

Amount paid for materials used in business, $32,213.

OCCUPATION AND CLASSIFICATION.	Men.	Daily wages paid men.	Hours worked per day.	Days in operation during the year.
Superintendent, *	1			Carbon county, 151 days. Luzerne county 76 days.
Foremen, †	1			
Engineers,	2	$2 50	10	
Carpenter,	1	2 50	10	
Teamster,	1	1 75	10	
Mill Hands,	18	2 25	10	
Outside Hands,	2	1 50	8	

* $1,800 per annum.

† $70 00 per month.

REMARKS.—Manufacturers of mining powder

Trade very much depressed, owing to an overstock of powder, and general stagnation of the coal mining business.

JAMES E. GAY,
Secretary.

Paul A. Oliver, Wilkes-Barre.

Located in Wilkes-Barre, Luzerne county.
Value in dollars of annual product, $120,000.
Whole number of persons employed, 43.
Amount of capital employed in business, $250,000.
Amount paid annually for wages of employés, $28,000.
Amount paid for materials used in business, $68,000.

OCCUPATION AND CLASSIFICATION.	Number of men.	Daily wages paid men.	Hours worked per day.	In operation during year.
Superintendent,	1	$3 00	10	Three fourths of a year.
Chief Engineer,	1	3 00		
Second Chief Engineer,	1	1 50		
Carpenter,	1	1 75		
Blacksmith,	1	2 00		
Coopers,	4	1 25		
Teamsters,	4	1 75		
Watchmen,	2	1 75		
Firemen,	2	1 50		
Agent,	1	3 00		
Bookkeeper,	1	3 00		
Messenger,	1	1 50		
Boy,	1	1 25		
Powder Makers,	22	1 00		

CHARACTERISTICS OF ESTABLISHMENT.—The business has been very depressed on account of the dullness in the coal trade, although it is expected to revive this fall and winter.

The mills have a working capacity of eight hundred kegs of powder per day, and, unlike other powder mills, are worked only regular working hours—from seven to six o'clock—and not at night, except for glazing. The works are managed on a new principle, in order to do away with loss of life in the manufacture.

Only a small quantity of powder is put in the machines, which make the powder at once. In this way a constant stream goes into the machine at one end, and comes out at the other, but only about twenty-five pounds, and that is damp. A little at a time, but all the time, like a small stream of water, is the principle upon which these mills are worked.

PAUL A. OLIVER.

The Moosic Powder Company—Scranton.

Establishment located in Luzerne county.

Value in dollars of annual product, $300,000—about.

Whole number of persons employed, 87.

Amount of capital employed in business, $500,000—about.

Amount paid annually for wages of employés, $36,279 88.

Occupation and Classification.	Number of men.	Number of youth.	Daily wages paid men.	Daily wages paid youth.	Hours worked per day.	Days in operation during year.
Foreman,	1	...	$2 87½	...	10	About nine months.
Machinists,	2	...	2 75	...	10	
Millwright,	1	...	3 85	...	10	
Carpenters,	5	...	2 12½	...	10	
Powder men, 1st class,	25	...	1 75	...	10	
Powder men, 2d class,	18	...	1 58	...	10	
Firemen,	8	...	1 37½	...	10	
Teamsters,	11	...	1 62½	...	10	
Blacksmith,	1	...	2 75	...	10	
Laborers,	5	5	1 30	$0 50	10	

J. D. SHERER,
Secretary.

Powder Mills at Jermyn and Moosic, Pa.

Business very dull during year. Prices unremunerative, on account of over-production, the demand not being equal to fifty per cent. of supply Destruction of our office by fire prevents reply to several questions.

* * *

STEEL.

Singer, Nimick & Co., Pittsburgh, Pa., manufacturers of steel of all descriptions.

Value of annual product, $850,000 to $900,000; whole number of persons employed, 475; amount annually paid for wages, $350,000; amount of capital employed in business, $1,000,000; hours worked per day, 8 to 10; days in operation in the year, 290.

Miller, Metcalf & Parkin, Pittsburgh, Pa., manufacturers of steel.

Value of annual product, $425,000.

Iron City Bridge Works, C. J. Schultz, proprietor, Pittsburgh, Allegheny county.

Establishment located in Pittsburgh, Allegheny county.

Value in dollars of annual product, $10,000. Has been only occasonally in operation during last year.

Whole number of persons employed, 20.

Amount of capital employed in business, $75,000.

Amount paid annually for wages of employés, $4,827 06.

OCCUPATION AND CLASSIFICATION.	Number of men.	Daily wages paid men.	Hours worked per day.	Days in operation during year.
Blacksmiths,	1	$2 66	10	126 days; but sometimes only with 4 men.
Engineers,	1	2 00		
Foremen,	2	3 50 5 00		
Laborers,	6	1 33		
Fitters,	5	2 16		
Carpenters,	5	2 50		

Business dull; caused by the panic of 1873, when railroad companies and corporations commenced curtailing expenses in every branch.

Business is now only recovering very slowly, without profitable prices, which, I think, is caused by competition of parties generally employed in other branches of business—as, for instance, boiler-makers enter into bridge building, and propose at such rates, that it is impossible to compete with them, without losing money, and hence the reason of rather laying idle and awaiting the change which necessarily must come.

C. J. SCHULTZ.

Black Diamond Steel Works, Park, Brother & Co.

Post office, Pittsburgh, county of Allegheny.

Establishment located in Pittsburgh, Allegheny county.

Value in dollars of annual product, $1,000,000.

Whole number of persons employed, 487.

Amount of capital employed in business, $1,000,000.

Amount paid annually for wages of employés, $280,000.

Amount paid for materials used in business, $669,000.

Four hundred and eighty-seven persons employed: 1 manager; 10 bosses, or foremen; 11 machinists; 5 carpenters; 4 blacksmiths; 4 blacksmith's helpers; 20 youths; 202 laborers; 41 hammermen; 51 hammermen helpers

13 melters of steel; 26 helpers do.; 42 rollermen and helpers; 15 heaters; 23 puddlers, enginemen, shearmen, and helpers, 12. Daily wages paid laborers, $1 50; daily wages paid apprentices, $1; hours worked per day, 10; in operation 300 days in the year.

Remarks.—The Black Diamond Steel Works are exclusively employed in the manufacture of cast steel, of the finer or better grades or qualities, such as were a few years ago almost entirely imported from across the Atlantic.

The business, owing to the high rates of duty imposed upon cast steel, from abroad, having induced so many capitalists to embark in its manufacture, has become, owing exclusively to home competition, anything but remunerative to those employed in it. The consumers, or users of cast steel of the various qualities, or descriptions, have greatly gained, owing to the low prices brought about by this home competition, as they are now enabled to secure their supplies, for all descriptions of tools and agricultural implements, at a cost fully equal to thirty per cent. below what they were compelled to pay when the rates of tariff were too low, to induce home capital to embark in the manufacture of cast steel, and at which time they were compelled to get their supplies from England, principally.

The business of steel manufacture is somewhat depressed, owing, in a great measure, to too much legislation, both State and national, and is burdened, far beyond what it should be, by excessive taxation. If our State Legislature would meet not oftener than once in every five years, and our national legislative bodies not more frequently, not only the steel business, but all other descriptions of business, both commercial and manufacturing, would prosper beyond anything we can now, with our present light, conceive. No man, or set of men in this country, can have the "pluck" they should have, to enable them to embark their capital in any kind of business, to any extent, when they know not what a few days legislation may bring about. Legislation, too, which may upset all their calculations, and blast all their hopes. In a word, we may say, legislation, too much legislation, such as we have in this country, is the greatest curse the people have to encounter. Without more than thirty days' legislation once in five years, any of us might embark in almost any business, and find "millions in it."

Yours truly,

P., B. & CO.

Philadelphia Iron and Steel Company, Philadelphia, Pa.

Value of annual product, $200,000; whole number of persons employed, range from 75 to 100; capital employed in business, $100,000; amount paid annually for wages, $50,000; value of materials used in business, $100,000. Wages—90 men, at prices per day ranging from $1 25 to $3 00;

10 youths receive from 60 cents to $1 00 per day; hours worked, 10. In operation during the year one third time.

The business was established in 1814, and incorporated four years ago as the Philadelphia Iron and Steel Company. For the last three years it has been discouraging, worse than I ever knew it to be, and I have been in this business all my life.

Yours,

JOHN P. VERREE.

May 4, 1877.

SHIP BUILDING.

"The Delaware River Iron Ship Building and Engine Works."

Post Office, Chester, county of Delaware, Pa.

Establishment located in Chester, Delaware county.

Value in dollars of annual product, $873,642.

Whole number of persons employed, average per day, 492.

Amount of capital employed in business, capital stock, $750,000; amount issued, $433,000.

Amount paid annually for wages of employés, including officers and superintendent of the company, $279,280.

Amount paid for materials used in business, $462,557.

OCCUPATION AND CLASSIFICATION.	Number of men.	Number of apprentices.	Daily wages paid men.	Hours worked per day.	Days in operation during the year.
Machinists,	66	20	Av. $1 75	10	306
Boiler Makers,	54		" 1 64	10	306
Foundry Men	38	2	" 1 78	10	306
Coppersmiths,	4	2	" 1 83	10	306
Blacksmiths,	29		" 1 80	10	306
Pattern Makers,	9	2	" 2 20	10	306
Carpenters,	24		" 2 17	10	306
Ship Joiners,	28	8	" 2 09	10	306
Painters,	11	1	" 2 46	10	306
Draughtsmen,	6		" 3 30	10	306
Boat-yard men,	223		" 1 44	10	306
	492	33			

The business of these works is building ships, engines, boilers, &c. The year 1876 was a very dull one, but since the first of January last, we have had an abundance of work.

WM. PARKER,
Treasurer.

M. Seibert & Co.

Post office, Pittsburgh, county of Allegheny.

Establishment located in Pittsburgh, Allegheny county.

Value in dollars of annual product, $113,600.

Whole number of persons employed, 80.

Amount of capital invested in business, buildings and lumber yard, $140,000.

Amount paid annually for wages of employés, $42,500.

Amount paid for materials used in business, $69,000.

OCCUPATION AND CLASSIFICATION.	No. of men.	Daily wages paid men.	Days in operation during year.
		Average.	About.
Cabinet Makers,	45	$1 75	300
Varnishers,	13	2 15	"
Machine Hands,	12	2 00	"
Wood Turners,	4	1 85	"
Laborers,	6	1 20	"

Worked three quarters time for about two months last winter.

M. SEIBERT & CO.

REMARKS.—The factory is situated with a front of one hundred feet on Grant street, Pittsburg, with two additions extending back to alley, (ninety-five feet in rear of street,) all being five stories in height, and basement.

Principal articles manufactured: Bedsteads, bureaus, and dressing cases.

Geo. Luppert, Furniture Manufactory.

Williamsport, county of Lycoming.

Establishment located in Lycoming county.

Value in dollars of annual product, $60,000.

Whole number of persons employed, 60.

Amount of capital employed in business, $30,000.

*Amount paid annually for wages of employés, $8,000.

*Amount paid for materials used in business, $54,000.

---

* The eight and fifty-four thousand should be counted as one, or eight deducted from fifty-four—whole cost of everything is about $54,000.

It is somewhat difficult to give a very correct statement without keeping accounts with a view to it. I have furnished only approximate figures. Several of my men are employed by the year, whose work cannot be charged to any particular account, while many of my day men are used in various departments as occasion may require.

GEO. LUPPERT.

Staples & Brown.

Post office, Mascon, county of Luzerne.
Establishment located in Luzerne county.
Value in dollars of annual product, $20,000.
Whole number of persons employed, 20.
Amount of capital employed in business, $10,000.
Amount paid annually for wages of employés, $8,000.
Amount paid for materials used in business, about $5,000.

OCCUPATION AND CLASSIFICATION.	No. of men.	No. of youth.	Daily wages paid men.	Daily wages paid youth.	Hours worked per day.	Days in operation during year.
Foreman,	1	...	$2 50			
Sawyer,	1	...	2 00			
Laborers,	8	10	1 75	$1 00	11	300

We manufacture, exclusively, clothes pins and hard wood lumber.
About 40,000 boxes clothes pins per year.

STAPLES & BROWN.

Schoeneck & Close, Cabinet Makers.

Post office, Pittsburgh, county of Allegheny.
Establishment located in Allegheny county.
Value in dollars of annual product, about $35,000.
Whole number of persons employed, 28.
Amount of capital employed in business, $22,000.
Amount paid annually for wages of employés, $15,000.
Amount paid for materials used in business, about $13,000.

OCCUPATION AND CLASSIFICATION.	No. of men.	No. of apprentices.	Daily wages paid men.	Daily wages paid apprentices.	Hours worked per day.	Days in operation during year.
Cabinet makers,	16	. . .	$2 00	. . . .	10	Full.
Foreman,	1	. . .	3 50			
Upholsterers,	3	1	2 50	$1 25		
Varnishers,	3	2	. . . .	1 00		
Store hands,	2	. . .	2 50			

CHARACTERISTICS OF ESTABLISHMENT.—Warerooms corner Penn and Tenth streets. A four story building, 22 x 110 feet.

Factory on Seventh avenue, 60 x 100 feet in front; the back used for lumber yard.

Williamsport Rubber Company.

Williamsport, Pa.

Value of annual product, $300,000; whole number of persons employed, 200; capital invested in business, $250,000; amount paid for material used, $225,000. Wages—employ 60 men, ranging in price per day from $1 00 to $2 75; 120 women, price paid for wages per day 90 cents to $1 25; 10 youths, at 83 cents per day; 10 apprentices at 43 cents per day; hours worked per day, 10; in operation 260 days during the year.

TOOL MANUFACTURER.

Pulaski Carter.

Providence, Luzerne county, Pa.
Value of annual product, $25,000.
Number of persons employed, 25.

CLASSIFICATION OF LABOR.	No. of men.	Average daily wages paid men.	Hours worked per day.	Average days in operation during year.
Ax forgers,	2	$2 75	10	202
Ax strikers,	2	1 75		
To finish after forging,	4	1 75		
Scythe makers,	5	2 50		
Scythe finishers for market,	4	2 00		
Tool maker,	1	2 75		
Helper for tool maker,	1	1 75		
Iron maker,	1	2 50		
Jobber,	1	2 25		
Helper for jobber,	1	1 50		
Carpenter,	1	1 80		
Teamster,	1	1 50		
Laborer,	1	1 50		

REMARKS.—Manufacture axes, scythes, edge tools, railroad, and mining tools. Ax and mine tool trade continues very dull. Scythe trade better than last year.

Verona Tool Works.

Metcalf, Paul & Co., Pittsburgh, Allegheny county, Pa.

Establishment located in Verona borough, Allegheny county, Pa.

Value of annual product, $100,518.

Number of persons employed, 30.

Capital employed in business, $50,000.

Paid annually for wages of employés, $15,741.

Paid for materials used in business, $40,390.

Classification of labor—1 foreman, $5; 1 machinist, piece work; 1 carpenter, $2. Balance are tool-makers, number various, wages vary, mostly piece-work.

Average number of youth, 10; hours worked per day, 10; days in operation during the year, about 250.

A specialty of hammers, sledges, picks, &c., &c., for railroad and mining purposes, forged from solid, crucible, cast steel.

FURNITURE.

A. H. Heilman & Co.

Located in Williamsport, Lycoming county, Pa.
Value of annual product, $80,000.
Number of persons employed, 20.
Amount of capital employed in business, $35,000.
Amount paid annually for wages of employés, $9,500.

CLASSIFICATION OF LABOR.	Men.	Youth.	Daily wages paid men.	Hours worked per day.	Days in operation during year.
Ornamental painters, *	2	. . .	. . . .	10	300
Painters, *	4	3			
Grainers, *	2				
Varnishers,*	1	1			
Drivers,	1	. . .	$1 50		
Cabinet makers,	2	. . .	1 50		
Packers,	2	. .	1 50		
Hardwood finishers,	2	. . .	1 50		
Bookkeepers,	1	. . .	1 50		
Handlers,	. . .	1			

* Piece work.

The firm of A. H. Heilman & Co. was organized November 1, 1871, by A. H. Heilman and J. N. Kline, for the purpose of conducting a wholesale and retail furniture business.

The capacity of the firm is three thousand cottage, and one thousand ash suits. Their trade is extending yearly, and now reaches into New York, New Jersey, Delaware, Maryland, and Ohio, and also into Canada.

In addition to their jobbing trade, they have built up an extensive retail trade in the line of common and medium furniture.

LIGHTNING RODS.

Reyburn, Hunter & Co., Philadelphia, Pa.

Value of annual product, $500,000.

Whole number of persons employed, 125.

Capital employed in business, $250,000.

Paid annually for wages of employés, $40,000 to $60,000.

Paid for materials used in business, $300,000 to $400,000.

The business extends all over the United States and Canada, Mexico, and Brazil. This year the trade has extended to Germany, Belgium, and France.

◆

GLUE, SOAP, BONE DUST, &c.

J. Bartles & Co., Williamsport, Lycoming county, Pa.

Firm composed of J. Bartles and J. M. Bradner.

Value of annual product, $60,000.

Number of persons employed, from 20 to 40.

Capital employed in business, $75,000 to $80,000.

Paid annually for wages of employés, $6,000 to $8,000.

Paid for materials used in business, $35,000 to $40,000.

Classification of labor: General foreman, 1; assistant foreman, 1; soap maker, 1; shipping clerk, 1; book keeper, 1; teamster, 1; night watchman, 1; fireman; hours worked per day, 10; days in operation during year, about 300; 10 to 25 ordinary hands, $1 10 per day; 3 to 15 girls, 40 to 50 cents; 1 boy, 50 cents; 3 salesmen traveling—1 regularly employed, 2 selling upon commission.

Product of the manufactory: Glue, soap, bone dust, neatsfoot oil, plastering, hair, etc.

Capacity per year: 2,500 barrels glue; 750,000 pounds soap; 1,000 tons bone dust; 250 barrels neatsfoot oil.

The factory consists of eight buildings, and occupy about three acres of land, the floor surface being about two acres. The works are operated by steam power furnished by three engines.

The estimate of the annual production is based upon the business of the year 1876, which was considerably below the capacity of the works.

OCHRE WORKS.

Luzerne Ochre Works.

This firm consists of R. S. Staply, T. A. Bell, S. Blevy.

Post office, Hoosehead, Luzerne county, Pa.

Establishment located in Dennison township, Luzerne county.

Value of annual product, $18,000.

Number of persons employed, 8.

Capital employed in business, $30,000.

Paid annually for wages of employés, $3,200.

Classification of labor—6 men, $1 50 to $2 50 per day; 2 youths, $1; hours worked per day, 10; days in operation during the year, about nine months.

Mill 70×40 feet; two run of French burrs, four bolts, and two revolving cylinders to dry the material, all run by a seventy horse power engine Product, 8 to 10 tons per day.

◆

KNITTING MILL.

Ellithorp & Co., Knitting Mill, Pittston, Pa.

Manufacture men's and ladies' underwear, both in merino and all wool, white and scarlet.

Value of annual product, $125,000.

Whole number of persons employed, 70.

Capital employed in business, $50,000.

Amount paid annually for wages, $20,168.

Amount paid for materials used in business, $63,600.

Wages and occupation—15 men, wages daily, from $1 25 to $2 75; 39 women and girls work mostly by the piece; youth earn from 50 cents to $1 per day; hours worked per day, 11; days in operation during the year, 275.

E. L. ELLITHORP.

NOTE.—The bureau is in receipt of quite a number of reports from small industrial establishments, where only four or five men were employed. The information which they imparted did not seem to be of sufficient public interest to warrant their publication. It must not be inferred, however, from this, that the bureau does not wish to receive reports from small establishments, but, that it is very necessary that the person who makes the report should endeavor to classify the table of wages and occupation properly, so that the information can be utilized.

The bureau has endeavored to prepare blanks sufficiently simple and plain, that all who receive them may, with a reasonable amount of care, fill them out correctly.

LUMBER.

The Lumber Trade.

The following review of the lumber trade of Williamsport, was written by a correspondent of the Philadelphia *Times:*

The manufacture of lumber is a great Pennsylvania industry, which has suffered nearly as much as coal since the panic of 1873. Indeed, the slackening in the demand for lumber, was even more marked than that of coal, and followed more speedily on the heels of the panic. From 1860 to 1874, was an era of marvelous lumber developments in Pennsylvania. Williamsport, the centre of the trade for all this region, and in fact for the whole State, grew up and flourished with all the rapidity of some of the mining centers, and with much more beauty, for lumber makes a cleaner, neater city than coal.

The lumber interest was unduly stimulated, and the present stagnation in that branch of business is, because of the previous excess. The forests were taken too rapidly, and the market glutted at the time the panic paralyzed demand. These consequences are painful but not unnatural. The ultimate result will be beneficial. At the rate the forests were taken between 1860 and 1874, the whole Pennsylvania timber supply would be exhausted by the end of the century. This would be a calamity, if not a crime—the destruction of that which belongs to future generations. The destruction of forests, in addition to the loss of lumber and wrong to posterity, interferes with the rain supply, and causes both droughts and floods. Heavily timbered countries are very rarely or never subjected to droughts, but treeless plains always. Denuding the forests causes floods, by precipitating the rains too quickly into the streams. For instance, a rain-fall of one inch in the forest, will find its way into the streams very slowly, and hardly make a perceptible rise; but the same quantity upon treeless hills is immediately precipitated into the streams, and hence we have floods oftener and in greater magnitude than formerly. It is curious, but true, that wholesale destructions of forests cause both floods and droughts; that is, less uniform and general rains, longer time between them, and greater floods when they do come.

The check in the destruction of forests, therefore, by the panic, is one of the good effects of that affair. The forests were being destroyed in a manner, and with a swiftness, utterly wicked. Three mills were built where there was really legitimate demand for one, and three trees were cut down when one was necessary. Along with this wholesale destruction, there was, of course, great waste, the object being to get in the most logs at the least possible expense, without a thought for the welfare of future generations, who will need lumber as much as the present, and for whom a portion of the forests are intended, in the economy of nature. Had the so-called "flush times" continued fifteen years longer, the object of nature, in providing forests for the future, would have been in danger of defeat; and, perhaps, nature had something to do with the panic, in order to defeat this sort of thing.

The halt in the lumber business can be realized when we know that the price has fallen off about one half, and the demand two thirds. This represents an enormous shrinkage, and has caused many mills, upon the waters tributary to Williamsport, to close up. But the lumbermen did not realize how completely the bottom had fallen out of things for a year or two after the panic, and kept on sawing, thinking that the "storm would soon be over," as the man said to Noah when the water was up to his neck. This served to glut the market, and, still further, to depress prices. Very little of the lumber manufactured in 1874 and 1875 brought cost. The market seemed without bottom, and when the mill men thought hard pan was at least reached, they were made acquainted with a still lower level. Many are ruined by the decline in both lumber and timbered lands upon the Susquehanna and its branches, the value of this class of lands and the mills having declined about one half.

There are now symptoms of a revival, and it is freely predicted that the lowest point has been reached. The reason of the revival, or that which is taken for revival, is plain. Low prices tempt the farmers to enlarge and improve their building. There is not much building in the cities, but considerable in the country. The truth is, the most prosperous class in Pennsylvania to-day, are the farmers. The decline in agricultural products has not kept pace with the general shrinkage. They are, therefore, in a healthy condition. They are still to make improvements, and build large barns and houses, and add to those already built.

Williamsport is the center of the pine and hemlock trade, but the bulk of the lumber marketed here is pine. Seventy-five or a hundred miles up the West Branch and Sinnemahoning creek, is the hemlock district—the largest and finest deposits of hemlock timber now in the United States, being the counties of Potter, McKean, Cameron, and Forest. The hemlock is excellent building material for barns, out-houses, fences, and the rougher portions of dwellings. From 1860 to 1874, the manufacture of this lumber was remunerative, the realized price being good, while the lands upon which it so densely grows being comparatively cheap. Thus the building of mills was stimulated, and the cutting of hemlock carried far beyond the legitimate demand. Men abandoned agriculture to engage in lumber—and we have the coal experience over again; too much production; a great falling off in demand, decline in prices, and bankruptcy to many. The decline in hemlock has been so great, that I personally know instances where it has been delivered on the railroad and loaded for four dollars per thousand feet. Imagine the small profit (?) on this to the mill man. It is, in fact, positive loss, the owners being driven to such sales to avoid the sheriff, perhaps, or postpone his visits, which we must conclude is a mere matter of time, under such circumstances.

Many mills through the Pennsylvania lumber districts are now idle, to avoid running at positive loss. Thousands of lumbermen, after wrestling long with adverse fate, are returning again to agriculture—a pursuit they should not have left in the first place. Lumbermen, by reason of the active outdoor life it is, take readily to farming, and hence the stagnation in the lumber trade leads to few of the evils one finds in the coal and iron districts. An anthracite coal miner, unable to find work in the mines, sits down and grumbles, or absurdly seeks a remedy in striking. A lumberman thrown out of work, takes to the farm, from whence the most of them come. Agriculture now pays better than lumber, and will for many years to come.

ANNUAL LUMBER REPORT.

Comparative Statement.

Stock on hand, January 1, 1870.

YARDS.	Pine.	Hemlock.	Lath.	Pickets.
Williamsport, ...	134,166,157	6,098,000	27,627,300	1,653,065
Lock Haven, ...	58,500,000			
Baltimore, ...	3,500,000			
Port Deposit, ...	1,500,000			
Philadelphia, ...	11,000,000			
Total, January 1, 1870, . .	208,666,157	6,098,000	27,627,300	1,653,065
" " 1, 1878, . .	143,898,947	30,924,567	31,156,300	3,394,049
Difference, ...	64,767,210	24,826,567	3,529,000	1,740,984

Stock on hand, January 1, 1871.

YARDS.	Pine.	Hemlock.	Lath.	Pickets.
Williamsport,	122,505,694	5,737,000	33,604,800	2,646,150
Lock Haven,	22,312,000	. . . .	2,289,000	720,000
Baltimore,	3,000,000			
Port Deposit,	950,000			
Philadelphia,	10,249,971	. . . .	. . . .	245,133
Total, January 1, 1871,	159,017,665	5,737,000	35,893,800	3,611,283
" " 1, 1878,	143,898,947	30,924,567	31,156,300	3,394,049
Difference,	15,118,718	25,187,567	4,737,500	217,234

Stock on hand, January 1, 1872.

YARDS.	Pine.	Hemlock.	Lath.	Pickets.
Williamsport,	50,550,603	2,832,500	12,687,600	1,687,815
Lock Haven,	7,179,000	. . . .	710,000	410,000
Baltimore,	2,250,000			
Port Deposit,	5,250,000			
Philadelphia,	13,486,280	. . . .	. . . .	472,890
Total, January 1, 1872,	78,715,883	2,832,500	13,397,600	2,570,705
" " 1, 1878,	143,898,947	30,924,567	31,156,300	3,394,049
Difference,	65,183,064	28,092,067	17,758,700	823,344

Stock on hand, January 1, 1873.

YARDS.	Pine.	Hemlock.	Lath.	Pickets.
Williamsport,	137,949,907	8,807,440	39,966,700	2,273,280
Lock Haven,	32,638,741	1,930,000	5,163,000	1,503,000
Baltimore,	2,000,000			
Port Deposit,	4,000,000			
Philadelphia,	10,818,990			
Total, January 1, 1873,	187,407,638	10,737,440	45,129,700	3,776,280
" " 1, 1878,	143,898,947	30,924,567	31,156,300	3,394,049
Difference,	43,508,691	20,187,127	13,973,400	382,231

Stock on hand, January 1, 1874.

YARDS.	Pine.	Hemlock.	Lath.	Pickets.
Williamsport,	220,961,922	19,872,444	58,541,100	3,587,655
Lock Haven,	34,919,444	3,460,652	4,905,000	1,476,000
Baltimore,	1,350,000			
Port Deposit,	5,200,000	. . . .	600,000	45,000
Philadelphia,	9,027,948			
Total, January 1, 1874,	271,459,314	23,333,096	64,046,100	5,108,655
" " 1, 1878,	143,898,947	30,924,567	31,156,300	3,394,049
Difference,	127,560,367	7,591,471	32,889,800	1,714,606

Stock on hand, January 1, 1875.

YARDS.	Pine.	Hemlock.	Lath.	Pickets.
Williamsport,	182,267,657	14,015,974	38,219,054	2,861,965
Lock Haven,	32,622,057	1,771,800	3,376,200	844,200
Baltimore,	2,000,000			
Port Deposit,	4,200,000	2,300,000		
Philadelphia,	13,659,278	1,448,565	41,000	122,240
Total January 1, 1875,	234,748,992	19,536,339	40,636,254	3,828,405
" " 1, 1878,	143,898,947	30,924,567	31,156,300	3,924,049
Difference,	90,850,045	11,388,228	9,479,954	434,356

Stock on hand, January 1, 1876.

YARDS.	Pine.	Hemlock.	Lath.	Pickets.
Williamsport,	194,640,162	22,091,910	33,768,154	1,554,506
Lock Haven,	32,311,700	4,450,000	3,124,000	936,015
Baltimore,	1,500,000			
Port Deposit,	4,000,000			
Philadelphia,	6,927,150	712,251	675,000	101,180
Total January 1, 1876,	239,343,012	27,184,161	37,567,154	2,591,701
" " 1, 1878,	143,898,947	30,924,567	31,156,300	3,394,049
Difference,	95,444,065	3,740,406	6,410,854	802,348

Stock on hand, January 1, 1877.

YARDS.	Pine.	Hemlock.	Lath.	Pickets.
Williamsport,	161,057,766	23,905,316	36,269,450	2,264,570
Lock Haven,	25,371,194	3,307,000	2,895,600	1,128,600
Baltimore,	4,000,000			
Port Deposit,	1,097,000	1,000,000	150,000	91,000
Philadelphia,	6,518,608	986,050	57,000	114,871
Total January 1, 1877,	198,044,568	29,198,366	39,372,050	3,599,041
" " 1, 1878,	143,898,947	30,924,567	31,156,300	3,394,049
Difference,	54,145,621	1,726,201	8,215,750	204,992

Estimate of Lumber in the Williamsport Market, January 1, 1878, as furnished officially to the West Branch Lumberman's Exchange.

ON YARD OF	Pine.	Hemlock.	Lath.	Pickets.
B. C. Bowman & Co.,	2,834,400	561,000	1,326,000	470,000
B. H. Taylor & Co.,	3,760,000	325,000	1,200,000	150,000
F. Coleman,	9,063,965	216,821	1,525,800	300,840
Woolverton & Tinsman,	2,644,000	1,156,000	1,555,000	69,000
Thompson, Housel & Co.,	795,000	550,000	65,000	155,000
P. B. Merrill & Co.,	4,231,300	48,000	1,339,400	139,000
Eder, Housel & Deemer, (estate,)	5,521,000	200,000	3,300,000	30,000
White, Lentz & White,	10,923,679	122,600	2,193,300	188,100
E. Canfield,	3,750,000	3,000,000	1,500,000	
Finley, Young & Co.,	6,000,000	. . . .	1,500,000	150,000
Williams & Foresman,	3,329,537	985,000	. . . .	90,000
Barrows & Co.,	6,700,000	250,000	2,100,000	215,000
Slonaker, Howard & Co.,	3,500,000	500,000		
John A. Otto & Sons,	3,033,000	186,000	. . . .	90,000
Thomas P. Merritt,	1,200,000	30,000		
Starkweather & Munson,	3,875,794	181,029	1,600,000	
Hebard & Smith,	788,000	161,000	75,000	10,000
Dodge, James & Stokes,	18,266,000	8,000,000	596,000	30,320
H. Merriman & Sons,	4,652,700	1,135,000	1,512,300	78,840
P. Herdic & Co.,	8,418,017	6,111,219	2,110,100	
Lutcher & Moore,	100,000	2,500,000		
John DuBois,	1,268,000	453,000	160,000	
Beaver Mills and Lumber Company,	3,000,000	. . . .	1,000,000	
E. L. Piper & Sons,	2,082,694	25,000	618,400	42,720
Brown, Earley & Co.,	5,686,111	463,000	1,914,000	187,500
Total, Williamsport,	115,453,197	27,159,669	26,190,300	2,396,320
" Lock Haven,	17,442,387	1,322,132	4,851,000	684,000
" Baltimore,	3,500,000			
" Port Deposit,	700,000	1,100,000	. . . .	75,000
" Philadelphia,	6,803,363	1,342,766	115,000	238,729
" January 1, 1878,	143,898,947	30,924,567	31,156,300	3,394,049

The above is a correct statement of the amount of Susquehanna lumber, lath, and pickets in first hands, in the above named markets, on the 1st day of January, 1878.

F. E. EMBICK, *Secretary.*

Barrows & Co.

Williamsport, Lycoming county.

Persons employed, 75.

Capital employed in business, $100,000.

Amount paid annually for wages of employés, $30,000.

Amount paid for materials used in business, $150,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	12,000,000	$200,000
Lath—Pine, number,	5,000,000	$8,000
Value of annual product,	. . . .	$208,000

Canfield & Colton.

Williamsport, Lycoming county.
Persons employed, 55 to 60.
Capital employed in business, $150,000.
Amount paid annually for wages of employés, $25,932.
Amount paid for materials used in business, $75,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	6,167,118	$80,172 49
Hemlock lumber, feet,	3,586,162	21,516 97
Ash lumber, feet,	21,903	219 03
Lath, number,	2,842,300	3,552 90
Value of annual product,	......	$105,461 39

REMARKS.—The foregoing is as correct a statement of the number of men employed as we can well make. The men in the mill only work while the mill runs. The men on the yard are employed nearly the whole time. About everything is done by contract—sawing lumber and lath, piling lumber, loading on cars, &c.

Trade is dull, no doubt owing to over-production and the stringency of the money market. Lumbermen have been working at a loss for two years past.

F. Coleman.

Williamsport, Lycoming county.
Persons employed, 56.
Amount of capital employed in business, $150,000.
Amount paid annually for wages of employés, $13,471 36.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	4,579,109	$68,686 65
Lath—pine, number,	1,400,000	2,235 00
Pickets, number,	79,380	793 80
Total value,	......	$71,715 45

Edw. Housel & Dumer.

Williamsport, Lycoming county.
Persons employed, 75.
Capital employed in business, $200,000.
Amount paid annually for wages of employés, $32,000.
Amount paid for materials used in business, $70,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	6,000,000	$90,000
Hemlock, feet,	300,000	2,100
Shingles, number,	3,000,000	16,000
Lath, number,	3,000,000	4,000
Value of annual product,	. . . . . .	112,100

Hebard & Smith.

Williamsport, Lycoming county.

Persons employed, about 60.

Capital employed in business, about $100,000.

Amount paid annually for wages of employés, about $20,000.

Amount paid for materials used in business, about $60,000 for logs.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	3,000,000	$50,000
Hemlock, feet,	1,000,000	8,000
Shingle, number,	5,360,000	39,392
Lath, number,	240,200	
Value of annual product,	. . . . . .	$97,392

REMARKS.—We buy our logs, delivered at the mill. Business dull, and prices unremunerative, in consequence of light demand, and ruinous competition from the West, the railroads carrying lumber into our markets from Wisconsin, Chicago, and Michigan at a very slight advance, if any, over rates charged us, and we see little reason to look for prosperity in the lumber business at this point.

Housel & Thompson.

Williamsport, Lycoming county.

Persons employed, 50.

Capital employed in business, $33,000.

Amount paid annually for wages of employés, $6,100.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	1,100,000	$$16,500
Hemlock lumber, feet,	2,780,000	19,460
Hemlock pickets,	250,000	1,750
Pine pickets,	20,000	200
Lath, number,	400,000	500
Value of annual product,	. . . . . .	$38,410

REMARKS.—Mill and yard located on river bank, below mouth of Lycoming creek. Have a Mulay flat and Slabber gang, and circular of Stern's pattern. Have sawed, in one season, 14,500,000 feet. Capacity may be rated at 12,000,000 feet.

L. C. Rinyon.

Williamsport, Lycoming county.

Persons employed, 18.

Capital employed in business, $10,000.

Amount paid annually for wages of employés, $750 per month.

Amount paid for materials used in business, $5,000.

Annual product—Shingles, 1,500,000; value, $10,000.

REMARKS.—Owing to the scarcity of money, which has caused a large shrinkage in values, the mills cannot find employment, except for about one third of the season. This will probably continue until our authorities are compelled, by the voice of the people, to legislate for the people, instead of the bondholder of Europe, as but few persons can endure the present state of things much longer, and continue to do business.

Lutcher & Moore.

Williamsport, Lycoming county.

Persons employed, 24.

Annual product—White pine lumber, 300,000 feet; hemlock lumber, 3,000,000 feet; pickets, 240,000.

REMARKS.—Steam saw-mill, containing one large circular, one gang-edger, and one lath and picket mill.

P. B. Merrill & Co.

Williamsport, Lycoming county.

Persons employed, 47.

Annual product—White pine lumber, $6,414,778 feet; lath, 1,700,000.

REMARKS.—Building, brick steam saw-mill, containing one mulay and two gangs; one 80-horse power engine, five cylinder boilers; one 25-horse power engine, two cylinder boilers; one gang lathe; one edger.

Merriman & Piper & Sons.

Williamsport, Lycoming county.

Persons employed, 36.

Capital employed in business, $33,947 92.

Amount paid annually for wages of employés, $12,090 04.

Amount paid for materials used in business, $1,547 67.

Annual product—White pine lumber, 5,860,725 feet; lath, 1,314,900; pickets, 135,773.

George W. Quinn.

Williamsport, Lycoming county.

Persons employed, 75.

Capital employed in business, $60,000.

Amount paid annually for wages of employés, $15,000.

Amount paid for materials used in business, $50,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	5,000,000	$70,000
Lath, number,	1,000,000	1,500
Value of annual product,	. . . . . .	$71,500

REMARKS.—In addition, it requires, perhaps, twenty-five men in the woods, six months in the year, to cut, stock, and drive the logs to the boom, at Williamsport, which is generally done by the thousand feet, costing last season $6 per thousand.

B. H. Taylor & Son.

Williamsport, Lycoming county.

Persons employed, 30 to 35 during sawing season.

Capital employed in business, $75,000.

Amount paid annually for wages of employés, $5,253, during sawing season.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	2,516,733	$45,000
Hemlock lumber, feet,	1,165,138	9,000
Pickets—Pine, number,	43,000	430
Pickets—Hemlock, number,	100,000	800
Lath—Pine, number,	800,000	1,200
Lath—Hemlock, number,	90,000	125
Value of annual product,	. . . . . .	$56,555

Wolverton & Tinsman.

Williamsport, Lycoming county.

Persons employed, about 45 or 50.

Capital employed in business, from $75,000 to $100,000.

Amount paid annually for wages of employés, from $18,000 to $20,000.

Amount paid for materials used in business, from $3,000 to $4,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet, ...	6,000,000	$90,000
Lath—Pine, number, ...	3,000,000	4,500
Value of annual product, ...	. . . . . .	$94,500

Brown, Shouse & Co.

Lock Haven, Clinton county.

Persons employed, 60.

Capital employed in business, $50,000.

Amount paid annually for wages of employés, $14,000.

Amount paid for materials used in business, $30,000 to $35,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,.	3,000,000	$48,000
Hemlock, feet, ...	1,000,000	8,000
Lath—Pine, number, ...	1,500,000	2,250
Lath—Hemlock, number, ...	500,000	500
Value of annual product, ...	. . . . . .	$58,750

REMARKS.—Saw mill built in 1873, of wood, 45 x 130; boiler house, 24 x 40; engine house, 20 x 40; eight cylinder boilers, 30 feet long; engine, 150 horse power; mill pool, 10 acres; ground used for piling lumber, about 15 acres: 2,000 feet along canal, and 1,000 feet along Bald Eagle Valley railroad; the establishment is one of the best on the West Branch; built by Thomas & Mason.

J. I. Curtin & Co.

Lock Haven, Clinton county.

Persons employed, 35.

Capital employed in business, $25,000.

Amount paid annually for wages of employés, $20,000,

Amount paid for materials used in business, $50,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet, ...	3,000,000	$45,000
Hemlock, feet, ...	1,000,000	9,000
Oak, feet, ...	1,000,000	17,00
Shingles—Pine, number, ...	1,500,000	6,000
Value of annual product, ...	. . . . . .	$77,000

A. C. Noyes.

Westport, Clinton county.

Persons employed, average, 10.

Capital employed in business, $8,000.

Amount paid annually for wages of employés, $4,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	500,000	$5,000
White oak, feet,	400,000	6,000
Value of annual product,	. . . . . .	$11,000

REMARKS.—Mill is a water mill, located near the mouth of Kettle creek, and is driven by the water of that stream; the mill runs five to six months of the year—last year not quite five months; most of the men employed in the mill are engaged during the balance of the year in getting out stock.

Pardee & Cook.

Lock Haven, Clinton county.

Persons employed, 30.

Capital employed in business, $200,000.

Amount paid annually for wages of employés, $40,000.

Amount paid for materials used in business, $50,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	6,000,000	$90,000
Hemlock, feet,	1,000,000	7,000
Maple,	200,000	1,500
Lath—Pine,	2,000,000	3,000
Lath—Hemlock,	500,000	500
Value of annual product,	. . . . . .	$102,000

Dewitt Bodine.

Hughesville, Lycoming county.

Persons employed, 6.

Capital employed in business, including mill and timber, $16,000.

Amount paid annually for wages of employés, $750.

Annual product, 150,000 feet hemlock; value, $900.

John H. Corson.

Tivoli, Lycoming county.

Persons employed, 1.

Capital employed in business, $600.

Amount paid annually for wages of employés, $40.

Amount paid for materials used in business, $150.

Annual product, 50,000 feet; value, $250.

George Edkin.

Tivoli, Lycoming county.

Persons employed, 4.

ANNUAL PRODUCT.		Value.
Hemlock lumber, feet,	200,000	$1,600
Lath—Hemlock, number,	30,000	75
Value of annual product,		$1,675

REMARKS.—One frame water saw-mill. Hemlock lumber business dull. Suppose it is on account of so much bark being peeled, which, of course, throws the logs in the market, and so many parties operating who make no account of the logs after bark is peeled, that it overstocks the market, as they are willing to sell the logs at most any price rather than to leave them spoil in the woods. Pay men by the thousand feet. Head sawyer receives $1 37 per thousand.

Furman Field.

Field's Station, Lycoming county.

Persons employed, from 20 to 50 men.

Capital employed in business, mill and lands, $100,000.

Amount paid annually for wages of employés, $9,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	100,000	$1,200
Hemlock lumber, feet,	2,500,000	17,500
Birch lumber, feet,	20,000	300
Maple lumber, feet,	10,000	150
Oak lumber, feet,	100,000	1,600
Basswood lumber, feet,	50,000	700
Poplar lumber, feet,	20,000	400
Chestnut lumber, feet,	50,000	600
Lath—Pine, number,	100,000	165
Lath—Hemlock, number,	500,000	750
Value of annual product,		$23,365

REMARKS.—Have 5,000 acres of land—150 under good cultivation, and the balance timber land. Saw-mill capable of cutting 400,000 feet each year.

H. C. Freck.

Montoursville, Lycoming county.
Persons employed, 27.
Capital employed in business, $50,000.
Amount paid annually for wages of employés, $3,939 82.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	757,640	$9,091 68
Hemlock lumber, feet,	596,680	4,773 44
Lath—Pine, number,	257,000	411 20
Pickets—Hemlock, number,	15,000	135 00
Value of annual product,		$14,411 36

REMARKS.—The mill was very much improved during the winter—its capacity for sawing nearly doubled. Mill started early in April, and will doubtless run the whole season. It is now averaging about 33⅓ thousand feet daily. Facilities for shipping, either by canal or railroad, cannot be surpassed.

C. S. Green.

Roaring Branch, Lycoming county.
Whole number of persons employed, 4.
Capital employed in business, $8,000.
Amount paid annually for wages of employés, $1,500.
Amount paid for materials used in business, $2,500.
Annual product—Hemlock lumber, 1,000,000 feet; value, $5,000.

REMARKS.—Logs for this mill are purchased on the bank of the stream, and floated. Cost, delivered, $2 50 per M feet. Steam power is used in sawing. Mill is of the style known as "Mulay."

The large quantity of bark peeled causes an oversupply of logs. Market for lumber overstocked, in consequence. More lumber shipped from here than ten years ago, at about one half the price per M.

Edward Lyon.

Hughesville, Lycoming county.
Whole number of persons employed, 30.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	100,000	$1,500
Hemlock lumber, feet,	2,500,000	18,750
Maple lumber, feet,	50,000	750
Value of annual product,		$21,000

REMARKS.—Think the present dull condition of lumber is owing somewhat to the depressed state of other business, and, in a measure, to an insufficient flow of currency to keep it in active demand. There has, no doubt, been entirely too much lumber crowded into the market by parties who have not before dealt directly with the consumers, consequently it throws more stock on hand than the trade requires. We want less lumber manufactured for a few years to come, in order that we may have a chance to work off our old stock—for what common sense is there in cutting down our good timber, in such a depressed state of affairs?

E. W. Sweet.

Carpenter, Lycoming county.

Persons employed, 15.

Capital employed in business, $25,000.

Amount paid annually for wages of employés, $6,000.

ANNUAL PRODUCT.		Value.
Hemlock lumber, feet,	1,200,000	$9,000
Maple lumber, feet,	100,000	1,400
Value of annual product.		$10,400

James & Michael Wolfe.

Waterville, Lycoming county.

Persons employed, 20.

Capital employed in business, $15,000.

Amount paid annually for wages of employes, $3,000.

Amount paid for materials used in business, $5,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	350,000	$4,800
Hemlock lumber, feet,	200,000	1,400
Chestnut lumber, feet,	50,000	750
White pine, square timber, cubic feet,	24,000	1,920
Shingles—Pine, number,	200,000	1,000
Value of annual product,		$9,870

Alex. McClure & Co.

Pittsburgh, Allegheny county.

Persons employed, 150 men and boys.

Capital employed in business, $100,000.

Amount paid annually for wages of employés, $30,000.

Amount paid for materials used in business, $80,000.

ANNUAL PRODUCT.		Value.
White Pine and oak, feet,	4,250,000	$85,000
Lath and nail kegs,	......	36,000
Value of annual product,	......	$121,000

REMARKS.—We pay our laborers $1 50 per day, and boys from 50 cents to $1 00 per day; the balance of our men and boys work piece work and make, on an average, for boys, 50 cents to $1 25, and men from $1 50 to $5 00.

H. P. Peck.

Sylvania, Bradford county.

Persons employed, 6.

Capital employed in business, $8,000.

Amount paid annually for wages of employés, $1,500.

Amount paid for materials used in business, $3,500.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	50,000	$1,000
Hemlock, feet,	800,000	6,000
Ash, feet,	10,000	200
Birch, feet,	10,000	200
Maple, feet,	10,000	150
Shingles—Pine, number,	200,000	900
Shingles—Hemlock, number,	100,000	350
Value of annual product,	......	$8,800

E. Walker & Co.

Towanda, county of Bradford.

Persons employed, 14.

Capital employed in business, $15,000.

Amount paid annually for wages of employés, $10,000.

ANNUAL PRODUCT.		Value.
Hemlock, feet,	1,500,000	$12,500
Ash, feet,	12,000	180
Birch, feet,	25,000	250
Maple, feet,	40,000	450
Bass and Poplar, feet,	10,000	120
Value of annual product,		$13,500

Whittemore & Gaskill.

Emporium, Cameron county.

Persons employed, 12.

Capital employed in business, $7,500.

Amount paid annually for wages of employés, $3,000.

Amount paid for materials used in business, $500.

ANNUAL PRODUCT.		Value.
Hemlock, feet,	200,000	$1,400
White oak, feet,	325,000	5,200
Value of annual product,		$6,600

J. S. Wiley.

Emporium, Cameron county.

Persons employed, 8.

Capital employed in business, $5,000 to $10,000.

Amount paid annually for wages of employés, $1,000 to $3,000.

Amount paid for materials used in business, $3,000 to $4,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	1,000,000	$10,000
Hemlock lumber, feet,	300,000	2,000
Cherry lumber, feet,	45,000	1,125
Ash lumber, feet,	20,000	300
Value of annual product,		$13,425

R. & J. H. Barrows.

Cameron, Cameron county.

Persons employed, 25.

Capital employed in business, $30,000.

Amount paid annually for wages of employés, $4,155.

Amount paid for materials used in business, $500.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	1,118,400	$16,776
Hemlock lumber, feet,	10,268	100
Oak lumber, feet,	166,162	3,323
Pickets,	8,000	100
Lath—Pine,	175,000	200
Value of annual product,		$20,499

J. R. Buckwalter.

Emporium, Cameron county.

Persons employed, 10 to 15.

Capital employed in business, $10,000.

Amount paid annually for wages of employés, $4,000.

Amount paid for materials used in business, $6,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	200,000	$2,600
Hemlock lumber, feet,	800,000	5,500
Cherry lumber, feet,	30,000	600
Ash lumber, feet,	30,000	600
Maple lumber, feet,	15,000	250
Oak lumber, feet,	300,000	5,100
Poplar lumber, feet,	40,000	550
Value of annual product,		$15,200

REMARKS.—Part of my logs are purchased from other parties, and the balance are stocked by jobbers, who employ, on an average all around, eight men, working the entire year. Bark-peeling is a separate industry, and presume will not come under this head. Twelve men are employed for three months in the year.

Hoover, Harris & Co.

Phillipsburg, Centre county.

Persons employed, 85.

Capital employed in business, $80,000.

Amount paid annually for wages of employés, $30,000.

Amount paid for materials used in business, $6,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	2,000,000	$25,000
Hemlock lumber, feet,	1,500,000	9,750
Other lumber, feet,	500,000	8,000
Planing mill,	1,000,000	23,000
Shingles—Pine, number,	500,000	1,600
Lath—Pine, number,	700,000	1,000
Value of annual product,	. . . . . .	$58,350

Wilcox Lumber Company.

Wilcox, Elk county.

Persons employed, 65.

Capital employed in business, $300,000.

Amount paid annually for wages of employés, $25,000.

Darrah.

Moore Brothers, Millstone, Elk county.

Persons employed, 25.

Capital employed in business, $40,000.

Amount paid annually for wages of employés, $10,000.

Amount paid for materials used in business, $2,000.

ANNUAL PRODUCT.		Value.
White pine timber, cubic feet,	200,000	$24,000
White pine lumber, feet,	200,000	2,200
Shingles—Pine, number,	1,000,000	2,500
Value of annual product,	. . . . . .	$28,700

Andrew Karl.

St. Mary's, Elk county.

Persons employed, 60.

Capital employed in business, $50,000 to $60,000.

Amount paid annually for wages of employés, $30,000.

Amount paid for materials used in business, $9,500.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	3,000,000	$36,000
Hemlock lumber, feet,	2,000,000	14,000
Cherry lumber,	......	500
Ash lumber,	......	800
Shingles—Pine, number,	200,000	800
Lath—Pine, number,	300,000	400
Value of annual product,	......	$58,350

Frank H. Goodyear.

Buffalo, Erie county, New York.

Establishment located in McKean county, Pennsylvania.

Persons employed, 60 men, in mills, woods, &c.

Capital employed in business, $50,000, in mills, real estate, &c.

Amount paid annually for wages of employés, $20,000 to $25,000.

Annual product—Hemlock lumber, 5,174,498 feet; value, $34,200.

REMARKS.—I have two circular saw-mills, almost entirely engaged manfacturing hemlock lumber; and during the year 1876, the demand was fair for our products, but prices were low, and margins, consequently, small We have but little lumber on hand this spring, (1877,) and at this time the demand is about as good as last year, but no better prices or profits. I ship nearly all the lumber I manufacture to this market, and surrounding country.

Rissell, Smith & Hoffa.

Potts Grove, Northumberland county.

Persons employed, 11.

Capital employed in business, $25,000.

Amount paid annually for wages of employés, $6,400.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	300,000	$6,000
Hemlock lumber, feet,	100,000	1,000
Yellow pine lumber, feet,	200,000	3,000
Railroad sills,	......	2,000
Shingles, (26-inch,) number,	200,000	1,800
Value of annual product,		$13,800

D. L. & M. H. Fralic.

Lamb's Creek, Tioga county.

Whole number of persons employed, 10.

Capital employed in business, $10,000.

Amount paid annually for wages of employés, $3,000.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	25,000	$500
Hemlock lumber, feet,	800,000	5,600
Maple lumber, feet,	20,000	200
Other lumber, feet,	50,000	500
Lath—Hemlock, number,	200,000	300
Value of annual product,	......	$7,100

REMARKS.—The business is dull—so much so, that no margin is left for profits. We think the lumbering interests are suffering more than business generally, owing, as we think, to the supply being more than the demand for hemlock lumber. Many logs are drawn to the mill, that would not be, were it not for so much timber being felled for the bark alone.

Truman & Bowen.

Wellsboro', Tioga county.

Persons employed, 14.

Capital employed in business, $8,000.

Amount paid annually for wages of employés, $1,500.

Amount paid for materials used in business, $2,500.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	50,000	$750
Hemlock, feet,	800,000	5,600
Cherry, feet,	3,000	40
Ash, feet,	30,000	500
Maple,	5,000	100
Other lumber, feet,	100,000	1,300
Shingles—Hemlock, number,	150,000	425
Value of annual product,	......	$8,715

REMARKS.—Steam mill with one circular saw and edger, also one shingle mill.

George D. Keeney.

Keeneyville, Tioga county.

Persons employed, 10,

Capital employed in business, $10,000.

Amount paid annually for wages of employés, $1,500.

Amount paid for materials used in business, $500.

ANNUAL PRODUCT.		Value.
White pine lumber, feet,	50,000	$750
Hemlock, feet,	800,000	4,800
Cherry, feet,	10,000	200
Ash, feet,	40,000	800
Birch, feet,	10,000	120
Maple, feet,	50,000	600
Shingles—Pine, number,	50,000	300
Shingles—Hemlock, feet,	300,000	750
Value of annual product,		8,320

Gurdon Steele.

Morris, Tioga county.

Persons employed, 10.

Capital employed in business, $8.000.

Amount paid annually for wages of employés, $4,500.

Annual product—White pine lumber, 500,000 feet; value, $10,000.

REMARKS.—We employ about 20 men through the winter season, in stocking the mill for the next summer, and drawing away the boards; business is very dull, and our last stock of lumber still on hand; our mill is a steam mill, 60 horse power, built four years ago, and cost us about $5,000.

Fall Brook Coal Company.

Fall Brook, Tioga county.

Persons employed, 11.

Capital employed in business, $15,000.

Amount paid for wages of employés while in operation, $1,794 48.

ANNUAL PRODUCT.		Value.
Hemlock, feet,	731,775	$3,658 88
Cherry, feet, Birch, feet, Maple, feet,	119,168	953 34
Value of annual product,		$4,612 22

The Blossburg Coal Company.

Arnot, Tioga county.

Persons employed, 80.

Amount paid annually for wages of employés, $35,000.

ANNUAL PRODUCT.		Value.
Hemlock, feet,	5,000,000	$30,000
Cherry, feet,	500,000	7,000
Ash, feet,		
Birch, feet,		
Maple, feet,		
Hemlock bark, cords,	2,000	10,000
Shingles—Hemlock, number,	1,100,000	2,200
Lath—Pine, number,	100,000	200
Value of annual product,		$49,400

PLANING MILLS, SASH AND DOOR FACTORIES.

B. Schmidt & Co.

Pittsburgh, Allegheny county.

Persons employed, 12; capital employed in business, $60,000; amount paid annually for wages of employés, $6,000; amount paid annually for materials used in business, $17,000; value of annual product, $30,000.

A. Hayes & Co.

Pittsburgh, Allegheny county.

Persons employed, 18; capital employed in business, $70,221; amount paid annually for wages of employés, $10,590; amount paid for materials used in business, $27,275.

Chambers, Van Devort & Co.

Allegheny City, Allegheny county.

Persons employed, 12; capital employed in business, $20,000; amount paid annually for wages of employés, $5,500; amount paid for materials used in business, $15,000 to $25,000; value of annual product, $25,000 to $40,000.

REMARKS.—We are engaged in the planing mill and lumber business; we buy lumber in the rough and manufacture doors, frames, sashes, shutters, brackets, &c., and make flooring, siding, mouldings, &c., and do a general planing mill business; we also buy and sell rough and worked lumber, shingles, &c.; we do not make or produce any lumber from the log.

South Side Planing Mill Company.

Pittsburgh, Allegheny county.

Persons employed, 18; capital employed in business, $85,000; amount paid annually for wages of employés, $5,300; amount paid for materials used in business, $13,000; value of annual product, $17,800.

R. Paul & Co.

Pittsburgh, Allegheny county.

Persons employed, 8; amount paid annually for wages of employés, $2,100; amount paid for materials used in business, $2,976; value of product, 9 months of the year, $11,421.

John B. Ingham & Son.

Allegheny City, Allegheny county.

Persons employed, 15; capital employed in business, (building and machinery,) $2,500; amount paid annually for wages of employés, $6,000; amount paid for materials used in business, $16,000; value of annual product, $25,000.

Remarks.—Our business is not exactly manufacturing; we have planing mill, sash and door factory, but use it, when running, almost entirely for our own contracts in erecting buildings; this year, thus far, we have not had it running but two weeks.

Heath & Spear.

Pittsburgh, Allegheny county.

Persons employed, 20; capital employed in business, $25,000; amount paid annually for wages of employés, $8,500; amount paid for materials used in business, $30,000; value of annual product, $37,000.

Grusch & Co.

Allegheny City, Allegheny county.

Persons employed, 8; capital employed in business, $18,694; amount paid annually for wages of employés, $5,200; amount paid for materials used in business, $4,357; value of annual product, $11,128.

W. S. Coyle.

Pittsburgh, Allegheny county.

Persons employed, 7; capital employed in business, $21,000; amount paid annually for wages of employés, $2,939; amount paid for materials used in business, $17,067; value of annual product, $22,935.

Murphy & Diebold.

Pittsburgh, Allegheny county.

Persons employed, 3; capital employed in business, $1,000; amount paid annually for wages of employés, $1,800; amount paid for materials used in business, $3,500; value of annual product, 6,000.

Freas Brothers.

Berwick, Columbia county.

Persons employed, 15 to 20; capital employed in business, $30,000; amount paid annually for wages of employés, $4,000 to $6,000; amount paid for materials used in business, $40,000 to $50,000; value of annual product, not stated.

Bloomsburg Lumber Company.

Bloomsburg, Columbia county.

Persons employed, 35; capital employed in business, $10,000; amount paid annually for wages of employés, $15,000; amount paid for materials used in business, $30,000; value of annual product, $50,000.

Remarks.—There is at present a dullness in our trade, arising from the depression of the times. Persons of small means have preferred to rent houses rather than build for themselves. The trade we have is small, but steady and solid. The best men are now building because labor and materials are cheap, and they can save money. The aim of business is now directed towards a firmer basis, with the old credit system dying out, though there seems to be a scarcity of capital wherewith to do business. There is not enough money for the amount of business done. The Schuylkill and Luzerne regions, formerly our markets, are very dull—in fact, offering no market at all.

S. Y. Kittle.

Wilkes-Barre, Luzerne county.

Persons employed, 2; capital employed in business, $15,000, (mill and machinery;) amount paid annually for wages of employés, $800; amount paid for materials used in business, $545; value of annual product, $2,683.

Remarks.—This being a mining region, trade is dull. Miners have all they can do to provide for their families, without building homes for them, as they formerly did when working full time and receiving high wages.

Devlin & Co.

Williamsport, Lycoming county.

Persons employed, 20; capital employed in business, $8,000; amount paid annually for wages of employés, 6,000.

H. Merriman & Sons.

Williamsport, Lycoming county.

Persons employed, 10; capital employed in business, $5,000; amount paid annually for wages of employés, $4,350; amount paid for materials used in business, $15,000; value of annual product, $25,000.

Remarks.—Architectural and ornamental wood moldings.

WAGES IN PENNSYLVANIA.

Tables showing the rate of wages paid per day in various branches of industry, during the year 1876, in Pennsylvania, compiled from official reports sent to this Bureau:

I. BITUMINOUS COAL MINES.

Wages Paid by Fall Brook Coal Company.

Average number.		Daily wages.	Average number.		Daily wages.
65	Miners on contract,	$2 40	1	Weighmaster,*	
2	Outside laborers,	1 35	6	Dumpers,	$1 35
5	Inside laborers,	1 45	10	Slate-pickers,	1 38
8	Inside laborers—boys,	56	1	Mining overseer,*	
2	Outside mechanics,	2 00			
2	Inside mechanics,	1 50			
15	Inside mule drivers,	1 50			
99			18		

* Paid by the month—weighmaster, $70 per month, and mining overseers, $125 per month.

Blossburg Coal Company.

Average number.		Daily wages.	Average number.		Daily wages.
363	Miners on contract,	$3 00	1	Inside mule drivers—boys,	$0 80
80	Miners on contract—boys,	80	2	Weighmasters,	2 25
31	Door tenders—boys,	80	2	Weighmasters—boys,	80
26	Outside laborers,	1 40	26	Dumpers,	1 40
3	Outside laborers—boys,	80	60	Slate pickers,	1 40
10	Inside laborers,	1 50	4	Slate pickers—boys,	80
9	Outside mechanics,	2 00	2	Mining overseers,	3 50
1	Outside mule driver,	2 00	1	Civil engineers,	6 39
2	Outside mule drivers—boys,	80	80	Lumber and mill,	1 40
54	Inside mule drivers,	1 88	3	Office,	3 00
580			181		

Penn Gas Coal Company.

Average number.		Daily wages.	Average number.		Daily wages.
676	Miners on wages, ...	$1 74	45	Inside mule drivers, ...	$1 60
68	Outside laborers, ...	1 25	5	Weighmasters, ...	1 50
40	Inside laborers, ...	1 40	7	Dumpers, ...	1 40
20	Inside laborers—boys, . . .	70	7	Mining overseers, ...	2 75
14	Outside mechanics, ...	1 90			
818			64		

Sterling Mines, Fayette County.

Average number.		Daily wages.	Average number.		Daily wages.
109	Miners on contract, ...	$1 50	9	Outside mule drivers, . . .	$1 50
10	Miners on contract—boys, .	75	13	Inside mule drivers, . . .	1 50
85	Outside laborers, ...	1 75	3	Dumpers, ...	1 50
10	Outside laborers—boys, . .	75	2	Mining overseers, ...	2 50
4	Inside laborers, ...	1 75	2	Outside overseers, ...	2 50
10	Outside mechanics, ...	2 00			
228			29		

II. ANTHRACITE COAL MINES.

Delaware and Hudson Canal Company's Collieries.

Average number.		Daily wages.	Average number.		Daily wages.
1,456	Miners on contract, ...	$1 97	37	Dumpers, ...	$1 46
163	Miners on wages, ...	1 90	35	Slate pickers, ...	1 44
134	Outside laborers, ...	1 46	962	Slate pickers—boys, ...	43
1,460	Inside laborers, ...	1 61	23	Mining overseers, ...	3 75
98	Outside mechanics, ...	2 06	4	Civil engineers, ...	3 75
56	Inside mechanics, ...	2 06	9	Civil engineers—boys, . . .	1 48
50	Outside mule drivers—boys,	71	27	Outside foremen, ...	2 78
517	Inside mule drivers—boys,	85	16	Clerks and office, ...	2 78
30	Weighmasters, ...	1 54	975	Miscellaneous labor, ...	1 26
3,964			2,087		

Mineral Railroad and Mining Company.—Luke Fidler Colliery.

Average number.		Daily wages.	Average number.		Daily wages.
144	Miners on contract, ...	$2 05	4	Inside mechanics, ...	$1 92
15	Miners on wages, ...	1 80	4	Outside mule drivers—boys,	90
15	Outside laborers, ...	1 40	16	Inside mule drivers—boys, .	1 27
20	Inside laborers, ...	1 52	4	Dumpers, ...	1 38
14	Inside laborers—boys, . . .	90	73	Slate pickers, ...	72
10	Outside mechanics, ...	1 90	1	Mining overseers, ...	3 90
218			102		

Koh-i-noor Colliery.—Schuylkill County.

Average number.		Daily wages.	Average number.		Daily wages.
68	Miners on contract, ...	$2 60	8	Inside mule drivers, ...	$1 72
8	Miners on wages, ...	1 90	6	Inside mule drivers—boys,	1 30
20	Outside laborers, ...	1 55	1	Ticket boss, ...	1 50
72	Inside laborers, ...	1 72	5	Platform men, ...	1 60
11	Outside mechanics, ...	2 15	30	Slate pickers, ...	1 00
2	Inside mechanics, ...	2 00	60	Slate pickers—boys, ...	70
3	Outside mule drivers, . . .	1 50	2	Mining overseers, ...	4 00
1	Outside mule drivers—boys,	1 25	2	Door boys, ...	80
185			114		

III. BLAST FURNACES.

Allentown Iron Company.

Average number.		Daily wages.	Average number.		Daily wages.
4	Foundrymen, ...	$2 30	2	Blacksmiths, ...	$1 80
10	Keepers, ...	1 43	1	Blacksmiths' helpers, . . .	90
20	Keepers' helpers, ...	1 26	186	Ore miners, ...	75
40	Fillers, ...	1 26	20	Laborers, ...	90
10	Gutterman, ...	1 26	1	Weighmen, ...	1 50
4	Cindermen, ...	1 14	1	Weigmen—boys, ...	1 00
6	Blast engineers, ...	1 38	6	Locomotive engineers, . . .	1 30
2	Carpenters, ...	1 73	9	Brakemen, ...	1 14
96			226		

Shoenberger, Blair & Co., Pittsburgh, Pa.

Average number.		Daily wages.	Average number.		Daily wages.
2	Keepers, ...	$2 02½	2	Engineers, ...	$1 80
2	Keepers' helpers, ...	1 57½	2	Firemen, ...	1 35
2	Fillers, ...	1 66⅔	2	Blacksmiths, ...	1 62
2	Hot blast ovenmen, ...	1 44	1	Carpenters, ...	1 62
4	Stockers, ...	1 57½	36	Laborers, ...	1 25
2	Cindermen, ...	1 44	1	Foundryman.*	
14			44		

*On salary, $1,200 per annum.

Rockhill Iron and Coal Company.—Huntingdon County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Manager, ...	$6 58	1	Blacksmiths, ...	$1 80
1	Foundryman, ...	5 48	1	Blacksmiths' helpers, . . .	90
2	Keepers, ...	1 25	68	Ore miners, ...	1 50
2	Keepers' helpers, ...	1 10	2	Weighmen, ...	1 10
20	Fillers, ...	1 00	2	Teamsters, ...	1 05
2	Gutterman, ...	1 10	2	Teamsters—boys, ...	65
3	Stockers, ...	1 00	1	Machinist, ...	2 75
4	Cindermen, ...	1 10			
2	Engineers, ...	1 50			
2	Carpenters, ...	1 71 1 35			
39			77		

Blair Iron and Coal Company.—Blair County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Manager, ...	$3 87	2	Cindermen, ...	$1 30
1	Foundryman, ...	2 50	2	Engineers, ...	1 25
2	Keepers, ...	1 48	1	Blacksmiths, ...	1 75
2	Ironmen, ...	1 30	1	Carpenters, ...	1 44
6	Fillers, ...	1 15	40	Laborers, ...	1 00
4	Stockers, ...	1 00	6	Laborers—boys, ...	70
16			52		

IV. ROLLING-MILLS.

Juniata Iron Works.*—Allegheny County.

Average number.		Daily wages.	Average number.		Daily wages.
4	Foremen,	$4 00	7	Hookers,	$1 25
12	Heaters,	4 00	10	Catchers,	2 25
58	Puddlers,	3 00	29	Nailers,	3 50
58	Puddlers' helpers,	2 25	91	Feeders—boys,	2 00
9	Rollers,	4 00	4	Horseshoe benders—boys,	1 00
4	Rollers' helpers,	1 50	6	Horseshoe hammerers—boys	90
2	Stockers,	2 00	8	Horseshoe punchers—boys,	1 00
4	Buggymen,	1 35	12	Pull-up boys,	35
3	Engineers,	1 83	5	Nail-plate tenders,	2 20
4	Firemen,	1 66	6	Shearmen,	1 75
3	Blacksmiths,	2 55	5	Weighmen,	1 60
2	Blacksmiths' helpers,	1 42	10	Weighmasters' packers, &c.,	1 50
3	Machinists,	2 75	20	Common laborers,	1 25
1	Carpenters,	2 25			
167			213		

---

* It is very difficult to arrive at the correct figures about a rolling-mill, as nearly all the hands are paid by the job, *i. e.*, nailers are paid twenty-one cents per keg for cutting 10d nails, (that is the basis,) they paying the feeder one half. Puddlers are paid five dollars per ton, paying their own help. Heaters, sixty-five cents per ton, &c.

Philadelphia and Reading Coal and Iron Company's Rolling Mill—Berks County.

Average number.		Daily wages.	Average number.		Daily wages.
2	Foremen,	$3 50	3	Blacksmiths,	$1 90
39	Heaters,	3 10	3	Blacksmiths' helpers,	1 00
41	Heaters' helpers,	1 50	3	Machinists,	1 80
24	Puddlers,	2 00	1	Carpenters,	1 80
24	Puddlers' helpers,	1 35	14	Hookers,	1 80
6	Rollers,	3 05	5	Catchers,	2 40
1	Rollers' helpers,	1 75	5	Weighmen,	1 80
7	Stockers,	1 75	4	Carters,	1 30
7	Buggymen,	2 00	2	Watchmen,	1 40
8	Engineers,	2 00	12	Common laborers	1 00
159			52		

Conshohocken, Pennsylvania and Corliss Iron Works—Montgomery County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Manager,	$4 63	1	Carpenters,	$1 80
2	Foremen,	3 25	8	Hookers,	2 10
13	Heaters,	3 25	15	Catchers,	2 00
5	Heaters' helpers,	2 25	4	Weighmen,	1 35
24	Puddlers,	3 00	3	Trimmers,	4 00
24	Puddlers' helpers,	1 75	3	Trimmers' helpers,	1 50
15	Rollers,	3 25	3	Packers,	2 50
10	Spannermen,	2 25	3	Pounders,	1 50
5	Stockers,	1 50	4	Straighteners,	2 00
3	Buggymen,	1 26	2	Annealers,	2 50
4	Engineers,	2 50	3	Annealers' helpers,	1 50
2	Blacksmiths,	1 75	21	Common laborers,	1 26
1	Machinist,	3 25			
109			70		

V. IRON FOUNDRIES AND MACHINE SHOPS.

Burnham, Parry, Williams & Co.—Philadelphia.

Wages paid Employees per Hour.

Average number.		Hourly wages.	Average number.		Hourly wages.
90	Iron moulders,	$0 20	23	Brass-founders,	$0 20
7	Iron moulders—boys,	6	2	Brass-founders—boys,	5
245	Machinists, (best,)	20	71	Blacksmiths,	22
40	Machinists, (best,)—boys,	5	3	Blacksmiths—boys,	6
129	Machinists, (ordinary,)	17	130	Blacksmiths' helpers,	14
26	Boiler-makers,	20	14	Foremen,	38
49	Boiler-makers' helpers,	14	9	Engineers,	18
13	Riveters,	20	43	Pattern-makers & carpenters	23
6	Holders-on,	15	3	Pat'n-makers & carp's—boys	5
7	Flangers,	18	178	Laborers and carters,	14
14	Flangers' helpers,	14			
626			476		

Snyder Bros.—Lycoming County.

Average number.		Daily Wages.	Average number.		Daily Wages.
4	Iron Moulders, ...	$2 25	1	Foreman, ...	$3 25
5	Machinists, (best,)	2 25	1	Engineer, ...	1 50
2	Machinists, (ordinary,) . . .	2 00	3	Pattern-makers and Carpenters, ...	2 25
1	Blacksmith, ...	2 00	1	Watchman, ...	1 43
1	Blacksmith's helper, ...	1 25	3	Laborers and Carters, . . .	1 25
13			9		

Seyfert & McManus.—Berks County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Foreman, ...	$5 00	1	Weighman, ...	$1 50
1	Boss machinist, ...	2 20	4	Measurers, ...	1 50
2	Engineers, ...	1 65	5	Provers, ...	1 25
2	Watermen, ...	1 30	4	Ball-turners, ...	1 25
3	Blacksmiths, ...	1 90	2	Stockers, ...	1 20
3	Blacksmith's helpers, . . .	1 25	22	Stockers, ...	1 10
7	Machinists, ...	1 65	1	Trimmer boss, ...	2 15
4	Lap Welders, ...	3 65	1	Tube inspector, ...	1 50
4	Butt Welders, ...	3 25	1	Tube splicer, ...	1 40
4	Assistant butt welders, . .	1 80	1	Oilman, ...	1 35
4	Assistant welders, ...	2 03	30	Finishers, ...	1 30
4	Assistant welders, ...	1 62	8	Shove-overs, ...	1 40
4	Scarfers, ...	2 25	4	Rodmen, ...	2 03
2	Assistant scarfers, ...	1 70	42	Cleaners, dragouts, &c., (boys,)	50
4	Assistant scarfers, ...	1 35			
4	Firemen, ...	2 03	81	Laborers, ...	1 00
53			207		

VI. BRIDGE BUILDING.

Keystone Bridge Company.—Allegheny County.

Average number.		Daily wages.	Average number.		Daily wages.
7	Foremen of shops, .	$3 50 to $6 00	138	Bridge builders, . .	$1 75 to $2 25
6	Assistant foremen of shops, ...	2 75 to 3 00	50	Fitters, ...	1 50 to 1 75
10	Foremen of erection,	3 00 to 4 00	20	Riveters, ...	1 75 to 2 25
55	Blacksmiths, ...	2 00 to 3 00	15	Moulders, ...	2 25 to 2 60
90	Blacksmith's helpers, ...	1 30 to 1 60	5	Painters, ...	1 60 to 2 00
25	Machinists, ...	2 25 to 2 85	203	Laborers, ...	1 25 to 1 75
8	Pattern makers, . .	2 40 to 2 75	10	Laborers, boys, . . .	60 to 75
40	Carpenters, ...	2 00 to 2 75	8	Apprentices, ...	90 to 1 40
241			449		

VII. LUMBER-MILLS.

Barrows & Co.—Lycoming County.

Average number.		Daily wages.	Average number.		Daily wages.
2	Foremen,	$3 50	4	Lath sawyers,	$2 00
5	Head sawyers,	2 00	2	Lath bundlers,	1 25
2	Edgers,	1 75	50	Laborers,	1 70
2	Filers,	3 25	1	Engineer,	3 00
4	Lumber counters,	2 00	2	Firemen,	2 00
15			59		

Wilcox Lumber Company.—Elk County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Foreman,	$4 00	2	Lath sawyers,	$1 62½
2	Sawyers,	2 50	2	Lath bundlers,	1 25
2	Setters,	1 75	1	Shipper,	2 50
1	Edgers,	1 75	50	Laborers,	1 37½
1	Filers,	2 75	1	Engineer,	2 50
1	Lumber counters,	1 50	1	Fireman,	1 75
8			57		

VIII. GLASS-WORKS.

Robert C. Schmertz & Co.—Allegheny County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Foreman,	$5 80	7	Cutters,	$4 00
16	Blowers,	5 80	2	Master teazers,	3 57
16	Gatherers,	3 00	4	Assistant teazers,	1 78
16	Assistant gatherers—boys,	70	1	Potmakers,	4 00
3	Batch mixers,	1 75	2	Assistant potmakers,	1 75
5	Flatteners,	5 80	2	Packers,	1 80
2	Assistant flatteners,	1 50	40	Laborers,	1 50
2	Assistant flatteners—boys,	75			
61			58		

Hirsch, Ely & Co.—Tioga County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Foreman,	$5 00	1	Potmaker,	$2 25
8	Blowers,	5 00	2	Assistant potmaker,	1 25
8	Gatherers,	2 13	1	Packer,	2 25
1	Batch mixers,	2 25	4	Apprentices,	1 33
2	Flatteners,	5 00	2	Engineers,	1 33
4	Cutters,	3 00	1	Blacksmith,	2 25
1	Master teazer,	3 00	1	Boxmaker,	1 50
1	Assistant teazer,	2 00	6	Laborers,	1 25
26			18		

Doyle & Co.—(Pressed Glassware.)—Allegheny County.

Average number.		Daily wages.	Average number.		Daily wages.
10	Pressers,	$3 00	29	Snappers—boys,	$1 00
10	Gatherers,	2 00	15	Carry-in-boys—boys,	80
2	Batch mixers,	3 00	5	Packers,	2 00
4	Mouldmakers,	3 75	4	Girls to wash,	50
1	Engineer,	3 00		Laborers,	2 00
2	Master teazers,	3 00	2	Mould cleaners,	1 00
29			55		

Richard & Hartley Flint Glass Co.—Allegheny County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Foreman,	$6 00	2	Liersmen,	$2 00
25	Blowers,	3 50	6	Packers,	2 00
25	Gatherers,	2 00	4	Apprentices,	75
2	Batch mixers,	2 25	20	Sticking-up-boys—boys,	1 00
4	Cutters,	2 50	10	Carry-in-boys—boys,	80
2	Master teazers,	2 30		Engineers,	2 10
2	Potmakers,	3 00		Blacksmiths,	2 10
4	Mouldmakers,	2 50		Teamsters,	2 16
1	Mouldmaker—boy,	1 50			
4	Mould cleaners,	1 16			
1	Mould cleaner—boy,	75			
71			42		

IX. COTTON MILLS.

Harrisburg Cotton Mill Company.

Average number.		Daily wages.	Average number.		Daily wages.
3	Overseers—carding, ...	$1 95	2	Doffers, packers, &c.—women	$0 50
7	Picker tenders—boys, . . .	46	22	Doffers, packers, &c.—boys,	40
1	Railway tenders, ...	84	2	Overseer—dressing, ...	2 25
4	Railway tenders—boys, . .	33⅓	10	Spoolers—women, ...	71
4	Drawing-frame tenders—women, ...	70	3	Warpers—women, ...	75
26	Speeder tenders—women, .	62½	4	Drawers & twisters—women,	67
1	Oilers—women, ...	50	1	Dressers, ...	1 67
5	Oilers—boys, ...	62½	5	Overseers—weaving, ...	1 87½
4	Grinders, ...	1 17	73	Weavers—women, ...	80
6	Strippers, ...	1 00	1	Sweep, ...	50
3	Overseers—spinning, . . .	1 95	2	Filling boys, ...	50
42	Frame spinners—women, .	50	7	Finishers—women, ...	60
106			131		

J. P. Crozer's Sons—Delaware County.

Average number.		Daily wages.	Average number.		Daily wages.
2	Overseers—carding, ...	$3 16	85	Frame spinners—youth, . .	$0 66
4	Picker tenders	1 50	28	Spoolers—women, ...	1 00
2	Railway tenders—women, .	1 00	9	Warpers, ...	2 10
5	Drawing-frame tenders—women, ...	1 00	13	Beamers and twisters, . . .	2 40
13	Speeder tenders—women, .	1 15	8	Overseers—weaving, ...	2 50
2	Picker boys—youth, ...	1 20	80	Weavers, ...	1 32
3	Grinders, ...	1 50	65	Weavers—women, ...	1 15
5	Strippers, ...	1 50	1	Dyer, ...	3 66
6	Slubber tenders—women, .	1 30	9	Dye and size houses, ...	1 66
4	Overseers—spinning, . . .	2 62	10	Laborers, ...	1 50
5	Mule spinners, ...	1 33			
9	Mule-back side piecers—youth, ...	55			
60			308		

William Simpson & Sons.—Montgomery County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Overseers, carding, ...	$2 33	1	Overseers, dressing, ...	$2 07
2	Picker tenders, youth, . . .	58	1	Second hand,.	1 28
1	Railway tenders, youth, . .	39	8	Spoolers, women, ...	57
2	Drawing frame tenders, women, ...	80	1	Warpers, women, ...	91
			2	Drawers & twisters, women,	89
7	Speeder tenders, women, .	82	1	Dressers, ...	2 07
1	Picker boy, youth, ...	33	4	Overseers, weaving, ...	2 55
1	Grinders, ...	1 42	68	Weavers, women,	1 02
1	Strippers, ...	1 28	2	Drawing-in hands, women,	89
2	Overseers, spinning, ...	2 20	3	Loom fixers, ...	1 52
4	Mule spinners, women, . .	1 07	1	Baler of goods, ...	1 17
4	Mule-back side piecers, youth, ...	31	1	Scrubbers, women,.	65
			1	Overseer in cloth room, . .	75
18	Frame spinners, youth, . .	33			
1	Doffer, ...	83			
45			94		

X. CALICO PRINTING.

Eddystone Manufacturing Company.

Average number.		Daily wages.	Average number.		Daily wages.
	Engraving Room:			*Raising Room:*	
14	Engravers, ...	$4 50	1	Foreman, ...	$1 66
11	Assistants, ...	1 50	3	Assistants, ...	1 33
2	Assistants, women,.	75	14	Assistants, youth, ...	50
1	Assistants, youth, ...	70		*Dye House:*	
	Singe Room:		1	Foreman, ...	2 16
1	Foremen, ...	2 00	2	Assistants, ...	1 50
2	Assistants, ...	1 63	24	Assistants, ...	1 33
1	Assistants, ...	1 33	13	Assistants, youth, ...	50
8	Assistants, youth, ...	85		*Finishing Room:*	
11	Assistants, youth, ...	50	1	Foreman, ...	2 33
4	Assistants, youth, ...	45	21	Assistants, ...	1 33
	Bleach House:		7	Assistants, youth, ...	50
1	Foreman, ...	3 33	14	Assistants, youth, ...	45
3	Assistants, ...	1 50		*Folding Room:*	
8	Assistants, youth, ...	85	1	Foreman, ...	3 33
15	Assistants, youth, ...	50	9	Folders, ...	2 00
	Color House:		6	Folders, women, ...	83
1	Foreman, ...	3 33	9	Assistants, ...	1 33
13	Assistants, ...	1 33	23	Assistants, women, ...	83
	Padding Room:		1	Assistants, women, ...	50
1	Foreman, ...	2 00		*Retort House:*	
4	Assistants, ...	1 50	1	Foreman, ...	5 00
	Shear Room:		5	Assistants, ...	1 33
1	Foreman, ...	1 66		*Machine Shops:*	
8	Assistants, ...	1 33	1	Foreman, ...	4 50

Average number.		Daily wages.	Average number.		Daily wages.
	White Dry Room,		5	Machinists,	$2 50
1	Foreman,	$1 50	8	Machinists,	2 25
2	Assistants,	1 33	1	Smith,	2 75
6	Assistants, youth,	35	1	Millwright,	2 75
	Print Room:		4	Millwrights,	2 00
1	Foreman,	5 00	6	Helpers,	1 50
10	Printers,	4 50	4	Helpers,	1 40
4	Assistants—apprentices,	3 00	1	Helpers, youth,	1 00
14	Assistants,	1 50		*Miscellaneous:*	
19	Assistants, youth,	1 33	2	Stock keepers,	1 33
17	Assistants, youth,	50	1	Painter,	2 00
	Hanging Room:		3	Laborers,	2 00
1	Foreman,	1 83	17	Laborers,	1 25
6	Assistants,	1 33	2	Engineers,	2 00
11	Assistants, youth,	50	8	Firemen,	1 50
1	Assistants, youth,	75	4	Watchmen,	1 50
203			224		

XI. WOOLEN-MILLS.

Shaw & Esrey.—Delaware County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Wool washers,	$1 25	3	Asst. overseers, (carders,)	$1 42
7	Dyers,	1 53	13	Weavers,	1 33⅓
3	Overseers, (dyers,)	2 39	72	Weavers—women,	1 25
3	Pickers—boys,	1 36	37	Weavers—boys,	1 00
11	Carders—boys,	77	6	Burlers—boys,	46
6	Spinners,	2 27	4	Loom bosses,	2 50
12	Piecers—boys,	60	2	Engineers,	2 37½
2	Beamers,	2 15	2	Laborers, (watchmen,)	1 50
2	Twisters,	58	1	Foremen,	3 50
2	Overseers, (carders,)	3 00			
49			140		

John Maxson.—Delaware County.

Average number.		Daily wages.	Average number.		Daily wages.
1	Dyers,	$2 00	4	Piecers—boys,	58
1	Overseers,	2 50	1	Overseers, (carders,)	$2 50
1	Pickers,	1 25	1	Asst. overseers, (carders,)	1 50
2	Card tenders—boys,	87½	25	Weavers—women,	1 05
2	Spinners,	1 87½	1	Burlers—women,	83⅓
1	Beamers,	1 50	1	Engineers,	2 00
8			33		

XII. TANNERIES.

Charles B. Williams & Sons.—Philadelphia.

	Daily wages.		Daily wages.
Tanners,	$1 50	Bark grinders,	$1 50
Beam hands,	1 75	Common laborers,	1 50
Yard hands,	1 50	Foremen,	2 00
Rollers and spongers,	1 75	Engineers,	2 00

Amos Hollinger.—Lancaster County.

	Daily wages.		Daily wages.
Tanners,	$1 50	Engineers,	$1 75
Yard hands,	1 00	Clerks,	2 16
Curriers,	1 66	Salesmen,	2 00
Table hands,	1 30	Bark grinders,	1 00
Blackers,	1 30	Laborers,	1 00

W. H. Osterhout.—Elk County.

	Daily wages.		Daily wages
Beam hands,	$1 25	Spongers,	$1 10
Yard hands,	1 25	Bark grinders,	1 00
Rollers,	1 25	Laborers,	1 00

VALUATION, TAXATION, AND INDEBTEDNESS.

The following tables were prepared with considerable trouble. We desired to show the assessed valuation of real estate, the rate of taxation for each and every purpose, the amount of township, municipal, and school indebtedness, the value of municipal property, value of school property, and the number of taxables. To secure the data, we addressed a circular to every township and municipal clerk in the State. In a few weeks we received responses from about half the districts, and then there was a lull. We then secured a list of the secretaries of school boards from the office of Public Instruction, and sent a circular to those townships and municipalities from which answers had not been received to our previous circular, addressed to the secretary of the school board. By this method, we obtained returns from nearly all the districts in the State, and our tables are believed to be as correct as they can be obtained, without the aid of a law compelling district officials to make returns.

ADAMS

	Whole amount of taxable property.	Rate of city or borough tax.	Whole amount of city or borough tax.	Rate of school tax (mills.)	Whole amount of school tax.	Rate of township or road tax (mills.)	Whole amount of township or road tax.	Rate of poor tax.	Whole amount of poor tax.
Butler township,	$400,000 00	. . .	. . . . . .	2	$1,500 00	4	$1,600 00	. .	. . . .
Berwick township,	244,146 00	. . .	. . . . . .	1	362 86	1½	238 35	. . .	. . . . .
Berwick borough,	92,975 00	. . .	. . . .	2	253 13	1	105 09	. . .	. . . . .
Cumberland township,	651,932 00	. . .	. . . . . .	2	3,161 98	2½	1,596 42	. . .	. . . . .
Conowago township,	537,010 00	. . .	. . . . . .	1–7	300 00	1¼	649 78	. . .	. . . . .
Franklin township,	727,373 00	. . .	. . . . . .	3	6,875 13	3	6,716 10	. . .	. . . . .
Freedom township,	202,924 00	. . .	. . . . . .	2	527 00	2	475 00	. . .	. . . . .
Gettysburg borough,	803,255 00	6½	5,047 45	5	4,048 00	. . .	. . . . .	. . .	. . . . .
Germany township,	326,523 00	. . .	. . . . .	1	500 00	1¾	525 00	. . .	. . . . .
Huntington township,	523,072 00	. . .	. . . . . .	3	2,020 00	2	1,000 00	. . .	. . . .
Hamiltonban township,	643,713 00	. . .	. . . . . .	3	2,086 35	2	1,193 25	. . .	. . . . .
Hamilton township,	558,561 00	. .	. . . . . .	3	1,750 00	2¼	1,234 00	. . .	. . . . .
Highland township,	204,771 00	. . .	. . . . .	1½	460 00	2	650 00	. . .	. . . . .
Latimore township,	467,974 00	. . .	. . . . . .	2½	1,549 64	3	1,264 41	. . .	. . . . .
Liberty township,	306,814 00	. . .	. . . . . .	2	804 00	2	612 00	. . .	. . . . .
Littlestown borough,	197,824 00	2	295 00	5	1,031 00	. . .	. . . . . .	. . .	. . . . .
Menallen township,	613,600 00	. . .	. . . . .	3¾	2,301 00	4	2,454 54	. . .	. . . . .
Mt. Pleasant township,	604,183 00	. . .	. . . . . .	1½	813 14	3	1,812 00	. . .	. . . .
Mount Joy township,	526,883 00	. . .	. . . . . .	1¼	935 23	1¼	916 56	. . .	. . . . .
New Oxford borough,	160,000 00	5	720 00	1	264 20	. . .	. . . . .	. . .	. . . . .
Oxford township,	363,322 00	. . .	. . . . . .	1	352 00	2	716 00	. . .	. . . . .
Reading township,	578,867 00	. . .	. . . . . .	3¾	1,269 71	2	1,122 30	. . .	. . . . .
Straban township,	669,343 00	. . .	. . . . . .	2	1,305 78	3	1,970 00	. . .	. . . . .
Tyrone township,	382,000 00	. . .	. . . . . .	2½	1,156 61	2	764 00	. . .	. . . .
Union township,	615,551 00	. . .	. . . . . .	1½	1,034 68	1	615 00	. . .	. . . . .
York Springs borough,	100,340 00	1	100 00	5	628 00	. . .	. . . . . .	. . .	. . . . .
	11,502,956 00	. . .	$6,162 45	. . .	$37,299 44	. .	$28,229 80	. . .	. . . . .

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of three mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes (mills.)	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$75 13	$1,237 03	. . . . .	. . . . . .	$7,200 00	. . . . . .	. . . . . .	. . . . .	378
. . . . . .	30 68	733 52	. . . . . .	. . . . . .	1,000 00	. . . . .	. . . . . .	. . . . .	347
. . . . .	48 56	323 89	. . . . . .	. . . . . .	500 00	. . . . . .	. . . . . .	. . . . .	113
. . . . . .	107 18	1,961 05	. . . . . .	1	6,000 00	. . . . . .	. . . . . .	. . . . .	417
. . . . . .	148 07	1,611 03	. . . . . .	. . . . . .	3,000 00	$487 00	. . . . . .	. . . . .	278
. . . . . .	178 31	2,182 12	. . . . . .	. . . . .	6,400 00	. . . . . .	. . . . . .	. . . . .	714
. . . . . .	38 63	659 64	. . . . . .	. . . . . .	2,000 00	. . . . . .	. . . . . .	. . . . .	136
. . . . . .	153 83	2,344 98	. . . . . .	. . . . . .	10,000 00	10,000 00	$1,200 00	. . . . .	875
. . . . .	98 38	964 87	. . . . . .	. . . . .	3,500 00	. . . . . .	. . . . . .	. . . . .	284
. . . . . .	121 28	1,786 20	. . . . . .	1	3,000 00	. . . . . .	. . . . . .	. . . . .	451
. . . . . .	95 07	1,834 39	. . . . . .	. . . . . .	6,800 00	. . . . . .	. . . . . .	. . . . .	540
. . . . .	176 33	1,660 10	. . . . . .	¾	3,150 00	. . . . . .	. . . . . .	. . . . .	340
. . . . . .	62 63	679 83	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . .	146
. . . . . .	132 20	1,418 80	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	374
. . . . . .	56 84	1,031 66	. . . . .	. . . . . .	2.500 00	. . . . . .	. . . . . .	. . . . .	277
. . . . . .	66 40	532 46	$318 00	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	248
. . . . . .	66 00	1,529 32	. . . . . .	. . . . . .	7,000 00	. . . . . .	. . . . . .	. . . . .	615
. . . . . .	174 41	2,067 53	. . . . . .	. . . . . .	4,000 00	. . . . . .	400 00	. . . . .	560
. . . . . .	105 46	1,552 69	. . . . . .	½	3,000 00	. . . . . .	. . . . . .	. . . . .	340
. . . . . .	144 55	518 71	. . . . . .	. . . . . .	1,500 00	1,100 00	. . . . . .	. . . . .	170
. . . . . .	77 17	1,204 48	. . . . . .	. . . . . .	1,500 00	. . . . . .	. . . . . .	. . . . .	240
. . . . . .	127 30	1,710 70	. . . . . .	. . . . . .	2,850 00	. . . . . .	. . . . . .	. . . . .	399
. . . . . .	166 49	2,008 03	. . . . . .	. . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	451
. . . . . .	86 75	1,180 07	. . . . . .	. . . . . .	5,500 00	. . . . . .	. . . . . .	. . . . .	302
. . . . . .	138 67	2,029 09	. . . . . .	. . . . . .	3,500 00	. . . . . .	. . . . . .	. . . . .	351
. . . . . .	115 15	552 69	. . . .	. . . . . .	800 00	. . . . . .	. . . . . .	. . . . .	131
. . . . . .	$2,791 47	$35,114 88	$318 00	. . . . . .	$99,200 00	$11,587 00	$1,600 00	. . . . .	9,377

ALLEGHENY

	Whole amount of taxable property.	Rate of city or borough tax. (mills.)	Whole amount of city or borough tax.	Rate of school tax, (mills.)	Whole amount of school tax.	Rate of township or road tax, (mills.)	Whole amount of township or road tax.	Rate of poor tax, (mills.)	Whole amount of poor tax.
Pittsburgh,	*	...	...	...	...	...	...	...	...
Allegheny,	$46,511,074	5	$232,555 37	2½	$116,277 68	...	...	...	...
McKeesport,	3,668,278	5	15,425 13	2½	10,458 54	...	...	...	...
Braddocks borough,	993,920	2	1,987 84	2¼	3,358 47	...	...	...	...
Bellevue borough,	591,676	2	1,192 00	1½	2,585 00	...	...	...	...
Chartiers borough,	493,130	2	986 26	3	2,027 00	...	...	...	...
Elizabeth borough,	404,500	2½	1,640 00	7	3,969 55	...	...	...	...
Etna borough,	1,186,000	1½	1,779 00	5	6,028 39	...	...	...	...
Millvale borough,	584,280	3¼	2,534 89	5	3,624 15	...	...	...	...
Mansfield borough,	297,639	3	891 00	3½	2,244 00	...	...	...	...
Sewickley borough,	1,390,610	05	6,953 65	3¼	4,531 10	...	...	...	...
Sharpsburg borough,	1,680,000	4	6,720 00	2	3,360 00	...	...	...	...
Tarentrim borough,	307,454	3	925 34	7	2,250 00	...	...	...	...
Verona borough,	879,609	2	1,758 00	2	2,919 00	...	...	...	...
West Elizabeth borough,	207,350	5	1,162 00	3	694 00	...	...	...	...
Beltzhoover borough,	243,325	3	739 00	2	600 00	...	...	...	...
Glenfield borough,	236,846	2	472 00	...	...	...	...	...	...
West Bellevne borough,	266,000	3½	931 00	3	827 00	...	...	...	...
Baldwin township,	3,000,000	...	...	1½	4,908 14	1¼	$3,627 98	...	...
Chartiers township,	1,728,406	...	...	2	5,000 00	1½	2,592 60	...	...
Crescent township,	140,987	...	...	2½	600 00	3	420 00	...	...
Collier township,	1,228,577	...	...	...	...	2	2,458 00	...	...
Elizabeth township,	2,215,844	...	...	2½	5,539 61	1½	3,323 76	...	...
East Deer township,	676,500	...	...	2	1,353 00	1½	1,014 75	...	...
Franklin township,	393,403	...	...	2	980 00	2	786 00	...	...
Fawn township,	441,491	...	...	2	882 98	2	882 98	...	...
Findley township,	1,012,864	...	...	2¼	2,985 00	2	2,024 00	...	...
Forward township,	1,511,784	...	...	1½	2,658 90	2	3,022 00	...	...
Hampton township,	912,126	...	...	1	1,245 00	1¼	1,160 37	...	...
Harrison township,	957,970	...	...	2½	2,394 92	1	872 75	...	...
Harmar township,	510,000	...	...	1¾	907 76	1½	765 00	...	...
Jefferson township,	1,407,916	...	...	2¼	3,728 00	2	2,814 00	...	...
Kilbuck township,	716,324	...	...	3½	2,507 43	1½	1,074 48	...	...
Leet township,	1,009,540	...	...	1½	1,514 00	...	...	...	...
Lower St. Clair township,	110,213	...	...	1¼	1,562 59	1¼	1,276 07	...	...
Lincoln township,	436,635	...	...	1½	1,339 50	2¾	1,429 68	...	...
Mifflin township,	3,037,826	...	...	1	5,910 94	1½	4,558 42	...	...
Moon township,	988,063	...	...	2¼	2,337 68	1¼	1,282 09	...	...
Marshall township,	540,074	...	...	⅞	603 96	1⅞	1,012 63	...	...
McCandless township,	922,161	...	...	1	922 16	2	1,844 32	...	...
North Fayette township,	1,475,394	...	...	1⅔	2,609 90	1¾	2,550 85	...	...
Neville township,	275,650	...	...	4	1,200 00	3	825 00	...	...
North Versailles township	1,037,552	...	...	4	4,240 68	2	1,986 00	...	...
Ohio township,	505,735	...	...	1¾	1,073 00	1½	757 00	...	...
O'Hara township,	1,604,281	...	...	...	...	2	3,208 00	...	...
Plum township,	1,624,194	...	...	1½	2,436 28	2	3,248 38	...	...
Penn township,	1,611,933	...	...	1½	2,659 00	2	3,222 00	...	...
Patton township,	1,333,613	...	...	2	3,393 67	2	2,666 00	...	...
Pine township,	680,605	...	...	1¼	1,157 00	2	1,380 00	...	...
Robinson township,	1,192,046	...	...	1¼	3,234 25	2	2,384 00	...	...
Ross township,	1,407,760	...	...	1½	2,659 00	2	2,814 00	...	...
Reserve township,	1,199,691	...	...	2	3,938 68	2	2,298 00	...	...
Richland township,	606,733	...	...	1½	1,141 47	1½	909 00	...	...
Shaler township,	1,345,120	...	...	1	2,119 00	1	1,345 00	...	...
South Versailles township	198,650	...	...	3	595 98	2	397 30	...	...
Snowden township,	222,035	...	...	1½	2,288 93	2	3,112 92	...	...
South Fayette township,	1,716,508	...	...	2	3,433 00	¾	1,288 24	...	...
Sewickley township,	270,451	...	...	2¼	778 00	2	540 00	...	...
Scott township,	1,375,000	...	...	¾	1,267 25	1½	2,062 50	...	...
Stowe township,	990,723	...	...	1	990 72	3½	3,467 53	...	...
Springdale township,	407,387	...	...	2	1,012 00	2	814 00	...	...
Upper St. Clair township,	938,028	...	...	1¼	1,549 71	2	1,876 00	...	...
Union township,	867,837	...	...	2	3,770 00	2	1,736 00	...	...
Wilkins township,	3,470,120	...	...	3	12,038 00	1½	5,205 00	...	...
West Deer township,	953,516	...	...	1½	1,760 00	2	1,906 00	...	...
Versailles township,	440,745	...	...	...	...	2	880 00	...	...
Total,	$111,591,702	...	$277,751 48	...	$284,434 89	...	$89,920 60	...	...

---

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of two and one half mills.	Amount of school debt, city or borough.	Amount of tax levied for building purposes.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$5,809 41	$313,672 25	......	......	......	......	......	...	39,194
......	3,962 59	117,023 01	$458,512 00	......	$948.000 00	$1,711,000 00	$4,000,000	...	18,259
......	290 88	11,949 83	......	......	28,600 00	122,911 23	3,000	...	2,162
......	215 98	3,197 08	7,000 00	......	13,000 00	......	2,300	.	706
......	107 84	2,302 13	......	......	......	......	......	...	287
......	100 41	1,971 16	......	......	......	......	......	...	481
......	145 70	1.814 25	2,000 00	......	9,000 00	1,900 00	5,200	...	391
......	79 58	3,869 31	25.700 00	......	30,000 00	......	......	...	588
......	62 67	2,319 38	17,000 00	......	25,000 00	......	120	...	571
......	37 37	1,243 05	......	......	......	......	......	...	299
......	276 51	4,481 70	700 00	......	8,000 00	75,000 00	101,000	...	549
......	78 60	5,303 14	......	......	15,500 00	8,500 00	5,500	...	843
......	27 45	999 56	3,000 00	......	10,000 00	......	......	...	367
......	100 44	3,287 32	......	......	......	......	......	...	395
......	22 54	710 03	......	......	3,000 00	......	......	...	222
......	3 51	905 22	......	......	......	......	......	...	298
......	13 97	945 42	......	......	......	......	......	...	206
......	55 36	864 76	......	......	700 00	......	......	...	105
......	154 36	9,631 37	......	......	18,000 00	......	......	...	1,046
......	215 88	6,508 88	......	......	......	......	......	...	1,060
......	26 10	559 01	......	......	......	......	......	...	106
......	185 62	4,444 58	......	......	......	......	......	...	381
......	139 51	6,390 97	......	......	25,000 00	300 00	......	...	927
......	64 49	2,211 73	1,000 00	$845 62	2,000 00	......	......	...	322
......	52 00	1,499 51	......	......	......	......	......	...	226
......	61 74	1,435 17	......	......	2,500 00	......	......	...	186
......	157 60	3,717 67	......	......	......	......	......	...	352
......	86 33	5,320 96	......	......	......	......	......	...	382
......	82 84	2,992 46	......	......	4,000 00	......	......	...	286
......	80 39	2,876 11	......	......	5,000 00	......	......	...	601
......	32 45	1,631 06	......	......	2,500 00	......	......	...	138
......	97 86	5,254 15	......	......	......	......	......	...	662
......	41 28	2,328 20	500 00	......	3,000 00	......	......	...	297
......	194 96	2,815 42	......	......	4,000 00	......	......	...	262
......	49 39	3,318 41	......	......	3,000 00	1,684 00	......	...	656
......	67 73	1,710 42	......	......	4,000 00	......	......	...	381
......	152 80	9,887 05	......	1,703 64	81,000 00	......	......	...	1,230
......	130 64	3,211 25	......	......	5,300 00	......	......	...	407
......	52 37	1,765 93	......	......	2,000 00	......	......	...	207
......	91 33	3,204 88	......	......	3,280 00	......	......	...	294
......	214 47	4,860 75	165 12	......	6,500 00	......	......	...	489
......	22 79	972 16	......	......	......	......	......	...	80
......	105 84	3,246 85	......	......	16,000 00	......	......	...	580
......	68 57	9,890 39	......	......	......	......	......	...	210
......	91 92	5,718 32	......	......	......	......	......	...	761
......	154 05	5,276 28	61 53	......	10,000 00	......	......	...	425
......	217 92	6,134 08	......	......	......	......	......	...	822
......	232 92	4,930 60	......	......	......	......	......	...	468
......	78 86	2,455 02	......	......	......	......	......	...	207
......	248 23	4.402 33	......	......	......	......	......	...	213
......	230 48	5,293 48	......	......	......	......	......	...	549
......	245 65	4,543 58	......	......	......	......	......	...	510
......	60 27	2,198 76	......	......	......	......	......	...	219
......	87 98	4,934 48	......	......	......	......	......	...	774
......	24 63	675 01	......	......	1,500 00	......	......	...	224
......	186 94	4,699 67	......	......	1,500 00	......	......	...	332
......	137 20	5,580 29	......	......	12,000 00	......	......	...	469
......	33 68	989 85	......	......	......	......	......	...	121
......	130 90	4,525 72	......	......	10,000 00	500 00	......	...	371
......	91 65	3,219 90	......	......	5,500 00	......	......	...	184
......	50 41	1,549 12	......	......	......	......	......	...	208
......	166 72	3,349 23	......	......	......	......	......	...	233
......	69 46	2,786 05	7,000 00	......	12,000 00	......	......	...	437
......	679 30	13,139 88	......	......	......	......	......	...	1,628
......	122 16	3,583 91	......	......	......	......	......	...	387
......	82 03	1,634 44	......	......	......	......	......	...	208
......	$17,290 56	$666,791 42	$522,638 65	$2,549 26	$1,332,630 00	$1,921,795 23	$4,117,120	...	88,141

ARMSTRONG

	Whole amount of taxable property.	Rate of city or borough tax (mills.)	Whole amount of city or borough tax.	Rate of school tax (mills.)	Whole amount of school tax.	Rate of township or road tax (mills.)	Whole amount of township or road tax.	Rate of poor tax (mills.)	Whole amount of poor tax.
Allegheny township,	$629,845 00	...	...	4	$4,039 80	5	$4,600 00	1	$645 00
Aladdin borough,	11,000 00	1	$110 00	...	...	...	...	...	...
Apollo borough,	173,750 00	...	...	16	3,209 40	...	...	...	...
Burrell township,	178,212 00	...	...	4¾	1,164 60	...	...	...	...
Brady's Bend township,	274,667 00	...	...	9	3,095 00	8	2,680 00	10	3,214 00
Cowanshannock twp.,	639,708 00	...	...	4	3,700 00	...	...	...	...
Elderton borough,	51,015 00	7½	382 50	12	615 00	...	...	...	...
Dayton borough,	65,054 00	1½	97 58	3	279 16	...	...	...	...
W. Franklin township,	290,945 00	...	...	6	2,355 60	8	2,465 71	3½	1,094 89
E. Franklin township,	478,280 00	...	...	4	2,213 00	4	1,913 00	1½	703 00
Freeport borough,	381,729 00	5	1,907 72	6	2,441 54	...	...	5	1,895 07
Hovey township,	64,848 00	...	...	10	1,084 00	10	648 00	7	453 00
Kittanning borough,	707,199 00	8	5,657 00	10	6,638 00	...	...	10	6,500 00
Kiskiminitis township,	545,425 00	...	...	3½	1,908 00	5	2,727 00	1½	820 00
Kittanning township,	394,790 00	...	...	2	1,144 59	6	2,368 74	2	789 59
Leechburgh borough,	112,000 00	7	800 00	18	2,089 00	...	...	...	...
Madison township,	169,516 00	...	...	20	2,852 66	...	...	...	...
Mahoning township,	242,565 00	...	...	8½	3,035 89	...	...	...	...
Manor township,	302,987 00	...	...	6	2,380 68	...	...	...	...
Manorville borough,	38,390 00	3	115 17	8	343 78	9	345 51	...	...
Perry township,	229,483 00	...	...	4	917 93	8¼	1,872 44	...	...
Pine township,	322,416 00	...	...	6	2,206 25	5	1,564 40	10	3,124 35
Parker City,	328,210 00	18	4,993 00	15	4,923 00	...	...	10	3,282 10
Plum Creek township,	487,723 00	...	...	7	3,644 57	...	...	...	...
Queenstown borough,	21,050 00	...	...	8	301 84	...	...	...	...
Red Bank township,	255,999 00	...	...	4	1,265 54	5	1,222 22	3	732 07
Sugar Creek township,	266,000 00	...	...	4	1,294 00	6	1,596 00	3	798 00
North Buffalo township,	398,239 00	...	...	2	1,000 00	2½	1,000 57	2	789 54
South Buffalo township,	474,561 00	...	...	3	2,581 45	...	...	...	...
South Bend township,	131,921 00	...	...	7	923 45	10	1,319 21	...	...
Valley township,	308,843 00	...	...	8	3,309 12	7	2,360 10	10	3,350 00
Washington township,	198,752 00	...	...	10	1,987 52	7	1.391 26	5	993 76
Wayne township,	443,333 00	...	...	2½	1,346 01	3	1,935 57	1	476 21
Worthington borough,	27,381 00	...	...	4	144 87	...	...	...	...
Total,	$9,645,836 00	...	$14,062 07	...	$70,435 25	...	$32,009 50	...	$29,660 58

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of seven and one half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes (mills.)	Value of school buildings.	City, borough, or township debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	......	$4,967 30	......	1	$8,000 00	......	......	.....	651
......	......	91 33	......	......	......	......	......	.....	17
......	......	1,451 50	......	8	2,500 00	......	......	.....	321
......	......	1,880 44	......	......	3,000 00	......	......	.....	259
......	......	2,243 47	$146 00	......	16,000 00	$720 00	......	.....	486
......	......	5,054 61	......	......	10,000 00	......	......	.....	594
......	......	377 62	2,700 00	......	3,000 00	2,700 00	$51,015 00	.....	101
......	......	445 05	......	......	1,500 00	......	......	.....	120
......	......	2,362 81	......	3	5,400 00	......	......	.....	290
......	......	3,233 32	......	......	10,000 00	200 00	......	.....	398
......	......	3,495 91	985 17	......	10,000 00	40 17	......	.....	489
......	......	572 87	700 00	3	3,000 00	100 00	......	.....	208
......	......	4,804 74	5,036 31	......	25,000 00	5,790 00	10,000 00	.....	563
......	......	4,045 12	......	......	10,400 00	......	......	.....	440
......	......	2,979 25	......	2	3,500 00	......	......	.....	410
......	......	830 62	9,000 00	......	15,000 00	......	......	.....	237
......	......	1,445 10	......	10	3,000 00	......	......	.....	443
......	......	2,243 42	......	3	4,500 00	......	......	.....	418
......	......	2,423 48	......	......	3,700 00	......	......	.....	366
......	......	266 18	......	......	900 00	......	......	.....	84
......	......	1,841 74	......	1	2,000 00	237 83	......	.....	360
......	......	2,361 08	423 91	......	6,000 00	1,513 62	......	.....	385
......	......	2,606 58	......	2	6,000 00	2,400 00	......	.....	705
......	......	3,894 01	......	2	10,000 00	......	......	.....	463
......	......	243 70	......	......	500 00	......	......	.....	85
......	......	1,864 69	......	......	4,000 00	280 00	......	.....	384
......	......	2,292 15	......	......	7,500 00	......	......	.....	287
......	......	2,695 84	......	1	2,800 00	......	......	.....	291
......	......	3,783 34	......	½	4,500 00	......	......	.....	462
......	......	2,241 74	......	......	2,500 00	......	......	.....	295
......	......	2,512 43	......	......	5,000 00	2,200 00	......	.....	507
......	......	1,657 62	300 00	5	3,200 00	......	......	.....	340
......	......	3,584 66	......	......	4,400 00	......	......	.....	400
......	......	199 04	......	......	500 00	......	......	.....	71
......	$756 55	$76,992 86	$19,291 39	......	$197,300 00	$14,201 62	$61,015 00	.....	11,930

BEAVER

	Whole amount of taxable property.	Rate of city or borough tax, (mills.)	Whole amount of city or borough tax.	Rate of school tax, (mills.)	Whole amount of school tax.	Rate of township or road tax, (mills.)	Whole amount of township or road tax.	Rate of poor tax.	Whole amount of poor tax.
Baden borough,	$76,377 00	3½	$267 32	16	$1,218 39	...	...	...	...
Beaver borough,	331,412 00	7	1,876 42	10	2,730 47	...	...	...	...
Beaver Falls borough,	554,500 00	15	7,955 37	16	10,256 52	...	...	...	...
Bridgewater borough,	179,072 00	...	...	13	1,557 72	...	...	...	...
Darlington borough,	23,817 00	...	...	16	400 00	...	...	...	...
Fallston borough,	78,500 00	5	392 50	12	942 00	...	...	...	...
Frankford borough,	27,567 00	30	827 01	25	521 00	...	...	...	...
Freedom borough,	78,624 00	...	...	10	842 30	...	...	...	...
Georgetown borough,	32,000 00	2	80 00	9	377 80	...	...	...	...
Glasgow borough,	23.773 00	...	...	10	183 29	...	...	...	...
Hookstown borough,	37,222 00	15	558 30	16	504 83	...	...	...	...
New Brighton borough,	447,933 00	...	...	15	6,421 39	...	...	...	...
New Galilee borough,	26,184 00	...	...	16	536 26	...	...	...	...
Phillipsburg borough,	58,583 00	...	...	...	...	...	...	...	...
Rochester borough,	383,674 00	10	3,977 74	10	3,327 40	...	...	...	...
St. Clair borough,	24,896 00	...	...	10	257 23	5	145 41	...	...
Big Beaver township,	227,139 00	...	...	3	824 43	5	912 68	...	...
Borough township,	50.000 00	...	...	9	472 56	5	250 00	...	...
Brighton township,	157,116 00	...	...	9	1,548 00	6	942 69	...	...
Chippewa township,	159,271 00	...	...	7	1,114 89	6	955 62	...	...
Darlington township,	336,648 00	...	...	4	1,350 00	5	1,683 24	...	...
Economy township,	215,143 00	...	...	3	1,503 65	8½	1,830 71	...	...
Franklin township,	146,125 00	...	...	7	996 17	...	850 00	...	...
Greene township,	266,155 00	...	...	10	2,327 13	...	1,000 00	...	...
Hanover township,	340,855 00	...	...	10	2,952 34	...	1,700 00	...	...
Harmony township,	80,000 00	...	...	3	240 00	4	320 00	...	...
Hopewell township,	225,424 00	...	...	14	2,243 92	...	875 00	...	...
Independence township,	193,792 00	...	...	4	867 50	5	958 16	...	...
Industry township,	121,508 00	...	...	7	817 18	4	410 88	...	...
Marion township,	72.886 00	...	...	7	510 20	8	584 00	...	...
Moon township,	176,964 00	...	...	3½	1,243 47	10	1,400 63	...	...
New Sewickley township,	233,406 00	...	...	4	933 62	11½	2,193 41	...	...
North Sewickley twp,	164,352 00	...	...	7	1,254 40	...	1,387 00	...	...
Ohio township,	219,548 00	...	...	13	2,451 49	...	1,876 00	...	...
Patterson township,	26,164 00	...	...	10	196 00	5	130 82	...	...
Pulaski township,	144,828 00	8	1,158 62	4	579 31	...	...	...	...
Raccoon township,	196,343 00	...	...	10	1,866 83	...	1,656 00	...	...
Rochester township,	85,000 00	...	...	6	660 00	6½	740 94	...	...
S. Beaver township,	233,000 00	...	...	5½	1,550 00	4	930 00	...	...
Total	$6,455,801 00	...	$17,093 28	...	$58,573 76	...	$23,733 19	...	...

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of twelve mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes, (mills.)	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$14 40	$898 38	$4,200 45	......	$5,000 00	......	......	.....	109
......	281 16	3,505 82	1,325 00	......	6,000 00	$4,500 00	$2,000 00	.....	298
......	55 37	6,532 30	20,000 00	......	35,000 00	30,577 61	......	.....	921
......	27 26	2,502 57	......	1	2,000 00	......	......	.....	265
......	17 37	398 12	......	8	800 00	......	......	.....	83
......	22 87	1,194 07	......	......	1,700 00	137 00	600 00	.....	160
......	12 25	316 24	530 00	15	1,800 00	......	2,143 20	.....	48
......	30 78	1,156 48	......	......	1,000 00	......	......	.....	173
......	8 54	497 06	210 00	......	300 00	62 00	420 00	.....	78
......	5 23	330 51	......	5	500 00	......	......	.....	58
......	12 66	453 78	360 00	......	1,000 00	......	33,352 00	.....	85
......	143 78	6,088 41	......	2	15,000 00	......	......	.....	837
......	12 38	366 10	......	8	1,000 00	......	......	.....	64
......	15 37	844 15	......	......	......	......	......	.....	109
......	97 33	4,628 56	500 00	......	12,000 00	6,296 89	3,000 00	.....	601
......	6 50	304 09	1,500 00	......	3,300 00	50 00	......	.....	71
......	73 91	2,794 51	......	......	3,000 00	......	......	.....	336
......	24 41	804 92	......	......	1,000 00	......	......	.....	120
......	57 45	2,498 41	......	......	7,000 00	800 00	......	.....	229
......	30 53	1,911 25	2,800 00	7	8,000 00	......	......	.....	185
......	77 07	4,111 42	......	......	3,000 00	......	......	.....	372
......	62 03	2,581 71	......	......	1,000 00	45 00	......	.....	280
......	36 40	1,906 77	......	......	3,500 00	......	......	.....	178
......	55 80	3,500 23	......	5	3,000 00	......	......	.....	310
......	63 53	4,408 86	......	3	5,000 00	......	......	.....	352
......	2,121 71	2,469 71	......	......	2,000 00	......	......	.....	96
......	49 35	2,915 10	......	7	4,000 00	......	......	.....	261
......	61 06	2,322 75	......	......	3,000 00	......	......	.....	214
......	36 45	1,527 00	......	......	1,800 00	......	......	.....	233
......	22 15	1,095 68	......	......	1,400 00	60	......	.....	118
......	41 65	2,123 56	1,000 00	3½	6,000 00	......	......	.....	217
......	79 31	3,090 63	......	......	4,000 00	100 00	......	.....	421
......	96 16	2,534 14	......	......	3,500 00	......	......	.....	260
......	90 86	3,031 14	......	5	4,000 00	......	......	.....	355
......	11 69	317 16	1,000 00	5	1,200 00	......	......	.....	19
......	73 90	1,906 28	......	......	4,000 00	......	......	.....	197
......	50 04	2,620 41	......	3	3,700 00	......	......	.....	270
......	17 04	1,394 07	1,500 00	5	4,000 00	......	......	.....	149
......	64 47	2,872 21	......	......	4,000 00	......	......	.....	276
......	$4,061 22	$84,493 56	$34,925 45	.....	$167,500 00	$42,569 10	$41,515 20	.....	9,408

BEDFORD

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Bedford borough,	$550,331	6	$3,300 00	17	$4,677 37	...	...	...	...
Bedford township,	749,093	...	...	7	3,130 21	...	$2,876 00	...	...
Broad Top township,	408,212	...	...	7	2,976 35	6	2,449 72	...	...
Colerain,	362,640	...	...	10½	2,080 24	...	1,387 00	...	...
Cumberland Valley,	374,364	...	...	8	1,867 88	...	1,420 00	...	...
Coaldale borough,	31,500	4	126 00	11	346 50	...	...	...	...
Everett borough,	200,000	3	600 00	10	2,000 00	...	...	...	...
Harrison township,	263,771	...	...	5	1,768 00	4	1,600 00	...	...
Hopewell township,	316,492	...	...	3	949 47	5	1,582 46	...	...
Juniata,	255,557	...	...	8½	1,491 69	...	1,276 00	...	...
Londonderry,	214,810	...	...	15	1,917 15	...	976 00	...	...
Liberty,	186,736	...	...	3	758 05	2	373 47	...	...
Monroe,	312,365	...	...	10	2,003 00	...	1,485 76	...	...
Napier,	482,868	...	...	9	2,071 94	...	2,380 00	...	...
Providence, East,	232,095	...	...	12	1,755 75	...	1,292 00	...	...
Providence, West,	195,000	...	...	8	1,560 00	6	1,685 73	...	...
Pleasantville borough,	50,000	1½	275 00	4	245 00	...	...	...	...
Rainsburg borough,	42,515	...	...	10	403 00	...	...	...	...
Snakes Springs township,	305,935	...	...	4	729 82	...	856 00	...	...
Schellsburg borough,	92,292	...	...	8½	850 85	...	247 86	...	...
Southampton township,	231,051	...	...	13	2,118 72	...	1,341 00	...	...
St. Clair township, East,	300,182	...	...	3½	1,140 00	6	1,582 00	...	...
St. Clair township, West,	194,861	...	...	8	1,540 00	...	1,386 00	...	...
St. Clairsville,	29,855	...	...	4	170 84	...	242 00	...	...
Saxton borough,	57,465	...	...	4	229 88	3	188 89	...	...
Union township,	151,110	...	...	4	604 44	3	453 33	...	...
Woodberry township,	786,082	...	...	4½	2,178 75	...	2,345 00	...	...
Woodberry, South,	725,256	...	...	4	1,759 14	1½	1,172 45	...	...
Woodberry borough,	82,806	1½	124 21	4	368 23	...	...	...	...
Total,	$8,185,244	...	$4,425 21	...	$43,692 27	...	$30,598 67	...	...

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of five and one half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$162 08	$3,231 94	. . . . . .	4	$10,000	. . . . . .	. . . . . .	. . . . .	579
. . . . . .	46 15	4,364 02	. . . . . .	. . . . . .	7,000	. . . . . .	. . . . . .	. . . . .	676
. . . . . .	11 07	2,273 44	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	471
. . . . . .	95 59	2,148 70	. . . . .	4	4,500	. . . . .	. . . . . .	. . . . .	300
. . . . . .	15 70	2,210 42	. . . . . .	2	4,000	. . . . .	. . . . . .	. . . . .	351
. . . . . .	4 59	174 85	. . . . . .	. . . . . .	300	$60 00	. . . . . .	$541 00	124
. . . . . .	68 00	1,089 95	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	287
. . . . . .	18 00	1,550 90	. . . . . .	. . . . . .	4,500	. . . . . .	. . . . . .	. . . . .	319
. . . . . .	53 91	1,755 96	. . . . . .	. . . . . .	3,000	. . . . . .	. . . . . .	. . . . .	381
. . . . . .	21 45	1,600 95	. . . . . .	. . . . . .	4,000	. . . . . .	. . . . . .	. . . . .	460
. . . . . .	12 00	1,283 26	. . . . . .	5	3,800	. . . . . .	. . . . . .	. . . . .	425
. . . . . .	18 90	1,048 03	. . . . . .	. . . . . .	2,000	. . . . . .	. . . . . .	. . . . .	338
. . . . . .	19 10	1,969 80	. . . . .	. . . . . .	3,500	. . . . . .	. . . . . .	. . . . .	485
. . . . . .	32 02	2,894 87	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	663
. . . . . .	17 90	1,430 86	. . . . . .	2	4,200	. . . . . .	. . . . . .	. . . . .	368
. . . . . .	17 80	1,630 07	. . . . . .	. . . . . .	4,200	. . . . . .	. . . . . .	. . . . .	498
. . . . . .	10 35	280 59	. . . . . .	2	100	. . . . . .	. . . . . .	. . . . .	86
. . . . . .	6 50	265 26	. . . . . .	. . . . . .	500	. . . . . .	. . . . . .	. . . . .	101
. . . . . .	5 05	1,749 36	. . . . . .	. . . . . .	2,500	. . . . . .	. . . . . .	. . . . .	212
. . . . . .	13 95	558 85	. . . . . .	. . . . . .	500	. . . . . .	. . . . . .	. . . . .	142
. . . . . .	7 90	1,495 91	. . . . . .	. . . . . .	4,500	. . . . . .	. . . . . .	. . . . .	394
. . . . . .	8 60	1,585 00	. . . . . .	. . . . . .	350				
. . . . . .	21 22	1,194 25	. . . . . .	. . . . . .	2,000				
. . . . . .	31 60	184 03	. . . . . .	. . . . . .	500	. . . . . .	. . . . . .	. . . . .	52
. . . . . .	8 57	343 32	. . . . . .	. . . . . .	. . . . . .	900 00	. . . . . .	. . . . .	134
. . . . . .	30 24	2,689 18	. . . . . .	. . . . . .	1,150	. . . . . .	. . . . . .	. . . . .	571
. . . . .	91 15	4,624 22	. . . . . .	. . . . .	5,000	. . . . . .	. . . . . .	. . . . .	585
. . . . . .	77 82	4,239 92	. . . . . .	. . . . . .	6,600	. . . . . .	. . . . . .	. . . . .	494
. . . . . .	47 45	421 29	. . . . . .	. . . . . .	2,000	14 77	$875 94	. . . . .	128
. . . . . .	$974 66	$50,289 20	. . . . . .	. . . . . .	$95,700	$974 77	$875 94	$541 00	10,304

BERKS

	Whole amount of taxable property.	Rate of city or borough tax, (mills.)	Whole amount of city or borough tax.	Rate of school tax, (mills.)	Whole amount of school tax.	Rate of township or road tax. (mills.)	Whole amount of township or road tax.	Rate of poor tax, (mills.)	Whole amount of poor tax.
Albany township,	$800,045	...	...	4	1,697 63	2	1,600 00	...	...
Alsace township,	496,000	...	...	1½	1,127 00	6¼	3,100 00	...	...
Amity township,	936,535	...	...	8	3,877 26	2	1,872 00	...	...
Bern township,	777,432	...	...	4	2,393 58	2	1,554 00	...	...
Bern, Upper, township,	1,385,385	...	...	3	2,514 32	1	1,385 00	...	...
Bethel township,	1,394,065	...	...	6	3,718 37	1	1,394 00	...	...
Brecknock township,	429,930	...	...	2	877 34	3	1,287 00	...	...
Burnville borough,	161,248	1	161 25	2½	465 92	...	...	...	...
Boyertown borough,	511,525	1	511,52	...	924 00	...	...	...	...
Birdsboro' borough,	614,450	2	1,275 00	3½	2,323 23	...	...	...	...
Cumru township,	1,368,620	...	...	...	1,865,82	...	1,368 50	...	...
Cærnarvon township,	493,631	...	...	2	1,216 07	8¾	1,830 05	...	...
Colêbrookdale township,	773,175	...	...	...	1,061 47	2	1,546 00	...	...
Centre township,	1,102,538	...	...	½	913 53	1	1,100 00	...	...
Douglass township,	383,246	...	...	4	1,145 10	7	2,157 65	...	...
District township,	370,975	...	...	...	601 50	3	1,110 00	...	...
Earl township,	315,854	...	...	2	918 00	8½	1,328 00	...	...
Exeter township,	1,665,510	...	...	1	2,847 00	3½	2,060 00	...	...
Fleetwood borough,	244,851	2	534 61	5	1,239 42	...	...	...	...
Greenwich township,	1,084,350	...	...	1	1,484 35	1½	1,626 10	...	...
Heidelburg township,	1,086,795	...	...	...	1,277 11	1	1,086 79	...	...
Heidelburg, Lower, twp.,	1,611,064	...	...	1½	3,000 00	1.20	2,379 60	...	...
Heidelburg, North, twp.,	671,175	...	...	...	970 62	2	1,342 00	...	...
Hereford township,	874,955	...	...	...	1,390 00	2	1,748 00	...	...
Hamburg borough,	665,754	2½	1,664 38	3	1,997 26	...	...	...	...
Jefferson township,	667,600	...	...	...	1,284 72	2	1,334 00	...	...
Kutztown borough,	394,370	5	1,970 00	...	1,230 56	...	...	...	...
Longswamp township,	132,838	...	...	3	6,034 42	2	2,656 76	...	...
Maiden Creek township,	1,128,865	...	...	...	2,000 00	...	1,128 00	...	...
Maxatawney township,	2,005,139	...	...	1¼	2,783 83	2½	2,235 24	...	...
Marion township,	1,147,030	...	...	1	1,314 00	1¼	1,500 00	...	...
Muhlenburg township,	1,074,371	...	...	.40	800 00	1½	1,517 35	...	...
Ontelawnee township,	1,018,745	...	...	...	3,000 00	...	2,036 00	...	...
Oley township,	1,701,240	...	...	...	2,707 38	...	2,402 00	...	...
Penn township,	948,316	...	...	1	1,233 19	1½	1,145 00	...	...
Perry township,	1,079,755	...	...	...	2,005 45	...	2,158 00	...	...
Pike township,	345,045	...	...	...	1,616 46	...	690 00	...	...
Richmond township,	1,480,106	...	...	1	2,050 00	1	1,480 00	...	...
Robeson township,	1,123,045	...	...	...	4,245 00	...	2,246 00	...	...
Ruscumbmanor twp.,	443,190	...	...	2	886 38	3¼	1,440 37	...	...
Rockland township,	548,739	...	...	4	2,100 00	3	1,400 00	...	...
Spring township,	1,834,550	...	...	...	3,281 38	...	2,668 00	...	...
Tulpehocken township,	1,149,965	...	...	...	1,958 45	...	2,298 00	...	...
Tulpehocken, Upper, twp	500,000	...	...	1¼	1,145 45	5½	1,527 00	...	...
Union township,	712,885	...	...	...	2,574 27	...	1,424 17	...	...
Windsor township,	553,270	...	...	...	815 53	...	1,106 54	...	...
Washington township,	882,795	...	...	...	1,262 18	...	1,764 58	...	...
Womelsdorf borough,	360,284	...	...	3	1,329 25	2½	1,052 24	...	...
Reading,	35.500,000	4½	160,000 00	3¼	83,000 00	...	...	...	...
Total,	$76,951,251	...	$166,116 76	...	$172,503 80	...	$70,083 94	...	...

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of two mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes, (mills.)	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
.....	$101 60	$1,600 09	......	......	$7,500 00	....	....	.....	$380
.....	137 93	1,082 14	......	......	3,000 00	....	....	.....	332
....	223 80	1,873 07	......	4	8,000 00	....	....	.....	476
.....	130 30	2,632 95	......	......	10,000 00	....	....	.....	551
.....	188 27	2,703 35	82 55	.....	7,000 00	174 64	....	.....	546
.....	269 64	2,788 13	......	......	7,500 00	....	....	.....	711
.....	91 96	859 86	......	......	3,500 00				
.....	39 40	382 71	......	2½	7,000 00	....	....	.....	119
.....	223 95	1,023 05	......	......	1,500 00	....	....	.....	195
.....	79 05	1,257 92	500 00	......	4,550 00	500 00	1,200 00	.....	383
.....	293 13	2,737 24	......	......	7,000 00	....	....	.....	699
....	29 63	983 61	......	1½	3,800 00	....	....	.....	252
.....	137 68	1,546 35	......	......	5,500 00	....	....	.....	341
.....	231 68	2,063 65	......	......	2,200 00	....	....	.....	417
.....	166 75	821 92	......	......	400 00	....	....	.....	276
.....	50 85	741 95	......	......	3,200 00	....	....	.....	180
.....	75 18	710 50	......	......	3,000 00	....	....	.....	262
.....	389 52	3,166 22	1,360 00	½	......	....	....	.....	589
.....	59 10	480 24	4,000 00	2	6,700 00	300 00	....	.....	185
.....	185 85	2,093 60	......	......	2,000 00	....	....	.....	480
.....	357 03	2,173 59	......	......	5,500 00	....	....	.....	286
.....	378 39	3,083 33	......	......	10,000 00	....	....	.....	659
.....	102 40	1,342 35	......	......	2,000 00	....	....	.....	246
.....	234 15	1,749 91	......	......	3,000 00	....	....	.....	410
.....	170 11	1,348 31	......	......	5,000 00	....	2,000 00	.....	572
.....	102 40	1,335 20	......	......	4,000 00	....	....	.....	239
.....	148 25	788 74	......	......	3,500 00	....	....	.....	371
.....	232 33	2,656 88	......	......	3,000 00	....	....	.....	863
.....	242 87	2,257 73	......	......	4,500 00	....	....	.....	433
.....	580 95	3,954 69	250 00	1	8,500 00	....	....	.....	649
.....	370 62	2,320 95	1,850 00	......	6,850 00	....	....	.....	440
.....	178 75	2,050 57	......	.65	4,000 00	....	....	.....	386
.....	219 07	2,036 49	......	......	3,500 00	....	....	.....	322
.....	516 95	3,402 48	......	......	3,800 00	....	....	.....	527
.....	212 73	1,811 60	......	......	7,200 00	....	....	.....	417
.....	173 16	2,159 51	......	......	4,500 00	....	....	.....	400
.....	156 20	690 09	......	4¼	2,500 00	....	....	.....	443
.....	190 80	2,887 18	......	......	5,000 00	....	....	.....	538
.....	111 25	2,246 09	......	2½	5,500 00	....	....	.....	569
.....	68 50	937 91	......	......	3,200 00	....	....	.....	332
.....	222 08	1,006 00	......	......	7,000 00	....	....	.....	364
.....	288 78	3,669 10	......	......	7,500 00	....	....	.....	538
.....	363 47	2,299 93	......	......	5,500 00	....	....	.....	520
.....	116 30	1,370 83	......	......	4,000 00	....	....	.....	274
.....	103 28	1,425 77	......	......	4,000 00	....	....	.....	366
.....	66 47	1,106 54	......	......	2,000 00	....	....	.....	183
.....	313 16	1,765 59	......	......	4,500 00	....	....	.....	444
.....	101 90	805 61	300 00	......	3,000 00	3,050 00	....	.....	346
.....	1,908 17	50,117 79	83,000 00	......	250,000 00	1,133,000 00	926,884 50	.....	9,910
.....	$11,397 84	$136,625 16	$91,342 55	......	$469,600 00	$1,137 024 64	$930,084 50	.....	29,521

BLAIR

	Whole amount of taxable property.	Rate of city or borough tax. (mills.)	Whole amount of city or borough tax.	Rate of school tax, (mills.)	Whole amount of school tax.	Rate of township or road tax. (mills.)	Whole amount of township or road tax.	Rate of poor tax, (mills.)	Whole amount of poor tax.
Altoona,	$1,900,000 00	...	......	10	$23,199 95	...	......	...	.....
Allegheny township,	236,119 00	...	......	10	2,912 76	3	$608 00	...	.....
Antis township,	416,000 00	...	......	4	2,500 00	5	2,000 00	...	.....
Blair township,	259,207 00	...	......	8	2,273 65	3	778 82	...	.....
Catharine township,	241,208 00	...	......	6	1,524 65	3	722 00	...	.....
Frankstown township,	384,243 00	...	......	6	3,273 00	3	1,152 00	...	.....
Freedom township,	100,000 00	...	......	10	1,164 00	6	568 54	...	.....
Greenfield township,	120,500 00	...	......	5	684 86	4	467 06	...	.....
Gaysport borough,	138,550 00	...	......	8	1,108 44	4	554 22	...	.....
Huston township,	355,607 00	...	......	5	2,028 00	...	400 00	...	.....
Hollidaysburg,	344,835 00	...	......	10	4,316 30	...	......	...	.....
Juniata township,	740,000 00	...	......	8	885 94	8	594 00	...	.....
Logan township,	466,499 00	...	......	7	4,176 95	2	932 00	...	.....
Martinsburg borough,	68,125 00	3	$204 00	10	806 00	...	......	...	.....
North Woodberry twp.,	450,000 00	...	......	4	1,800 00	2¼	1,012 50	...	.....
Snyder township,	198,832 00	...	......	8	1,770 61	7	1,391 82	...	.....
Tyrone,	335,000 00	20	6,700 00	12	4,020 00	...	......	...	.....
Tyrone township,	345,750 00	...	......	5½	2,332 17	3	1,035 00	...	.....
East Tyrone borough,	19,800 00	5	110 83	13	547 94	...	......	...	.....
Taylor township,	352,738 00	...	......	6	3,075 50	3	1,056 00	...	.....
Woodberry township,	455,555 50	..	......	5	2,652 28	3½	1,550 00	...	.....
Total,	$7,928,568 50	...	$7,014 83	...	$68,053 00	...	$14,821 96	...	.....

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of nine mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes, (mills.)	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$927 79	$16,942 66	$30,500 00	2	$75,000 00	......	......	......	3,479
......	90 14	2,376 13	......	......	3,000 00	......	......	......	401
......	129 86	3,345 12	......	2	5,000 00	......	......	......	417
......	83 50	2,346 46	......	......	3,000 00	......	......	......	299
......	58 46	2,325 41	......	2	3,000 00	......	......	......	152
......	102 78	3,702 93	......	......	5,000 00	......	......	......	384
......	43 82	911 15	721 99	......	3,000 00	......	......	......	241
......	49 52	1,186 43	......	......	5,000 00	......	......	......	285
......	36 57	900 32	1,851 56	......	3,600 00				
......	82 23	3,068 78	......	......	7,000 00	......	......	......	352
......	247 53	3,615 08	500 00	......	7,500 00	......	......	......	655
......	22 56	691 80	......	......	4,000 00	......	......	......	121
......	139 87	4,575 05	......	2	6,000 00	......	......	......	681
......	64 21	748 89	......	......	1,000 00	......	......	......	136
......	93 08	3,721 75	......	......	6,000 00	......	......	......	360
......	53 91	1,749 78	......	......	12,500 00	......	......	......	305
......	153 47	2,967 17	2,000 00	......	15,000 00	$31,000 00	......	......	604
......	83 59	3,307 32	......	2	6,500 00	......	......	......	252
......	6 64	178 65	1,060 00	7	1,500 00	......	......	......	54
......	109 53	3,421 78	......	3	6,200 00	......	......	......	361
......	172 20	4,090 00	515 04	......	8,000 00	......	......	......	495
......	$2,751 26	$66,172 66	$37,148 59	......	$187,400 00	$31,000 00	......	......	10,174

BRADFORD

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Albany township, ...	$89,970 00	. . .	. . . . . .	8	$1,091 70	15	$1,349 55	20	$1,799 40
Asylum township, ...	141,375 00	. . .	. . . . . .	5	1,022 21	6	848 25	5	706 90
Armenia township, . . .	34,687 00	. . .	. . . . . .	8	378 00	10	346 87	5	173 43
Athens township, ...	498,000 00	. . .	. . . . . .	5	3,530 97	10	5,320 88	4	1,992 00
Athens borough, ...	183,700 00	4	$732 00	10	2,191 62	. . .	. . . . . .	. . .	. . . . .
Alba borough, ...	22,500 00	. . .	. . . . . .	6	180 59	4	134 90	. . .	. . . . .
Barclay township, ...	103,830 00	. . .	. . . . . .	10	1,722 20	10	1,038 30	10	1,038 30
Burlington township, . .	120,329 00	. . .	. . . . . .	6	1,904 48	10	1,203 29	8	960 00
Burlington, West, ...	100,142 00	. . .	. . . . . .	6	860 78	10	1,000 14	5	500 00
Burlington borough, . .	21,467 00	7½	161 00	6	175 62	5	107 33	. . .	. . . . .
Canton township, ...	245,449 00	. . .	. . . . . .	6	2,000 00	4	981 80	3	736 35
Canton borough, ...	100,000 00	5	500 00	10	1,600 00	. . .	. . . . . .	. . .	. . . . .
Columbia township, . . .	258,258 00	. . .	. . . . . .	4	1,400 00	3	747 77	. . .	. . . . .
Franklin township, . . .	84,000 00	. . .	. . . . . .	3	462 21	10	840 00	10	840 00
Granville township, . . .	157,010 00	. . .	. . . . . .	5	1,067 42	10	1,570 10	. . .	800 00
Herrick township, ...	113,016 00	. . .	. . . . . .	8	904 12	10	1,130 16	3	339 04
LeRoy township, ...	144,890 00	. . .	. . . . . .	8	1,570 59	7	1,088 00	5	720 00
Litchfield township, . . .	154,802 00	. . .	. . . . . .	5	1,107 86	6	932 00	. . .	616 00
LeRaysville borough, . .	40,317 00	. . .	120 95	3	242 80	. . .	. . . . . .	. . .	. . . . .
Monroe township, ...	150,000 00	. . .	. . . . . .	10	1,500 00	7	1,050 00	5	750 00
Monroe borough, ...	29,026 00	6	174 00	10	396 85	. . .	. . . . . .	. . .	. . . . .
Orwell township, ...	171,416 00	. . .	. . . . . .	9	1,725 10	10	1,714 16	5	835 00
Overton township, . . .	55,000 00	. . .	. . . . . .	5	175 69	25	1,369 84	7	385 66
Pike township, ...	202,706 00	. . .	. . . . . .	8	2,485 00	4	808 00	3	606 00
Ridgeberry township, . .	234,878 33	. . .	. . . . . .	6	1,409 27	4	711 22	. . .	. . . . .
Rome borough, ...	18,407 00	. . .	. . . . . .	16	396 68	. . .	. . . . . .	. . .	. . . . .
Rome township, ...	140,926 00	. . .	. . . . . .	8	1,223 89	7	980 00	4	560 00
Smithfield township, . .	297,019 00	. . .	. . . . . .	5	1,937 00	8	2,066 00	. . .	*1,000 00
Springfield township, . .	245,508 00	. . .	. . . . . .	3	1,135 00	10	2,455 08	5	1,227 54
South Creek township, .	123,450 00	. . .	. . . . . .	7	864 00	18	2,839 35	5	625 00
Sylvania borough, ...	18,853 00	5	90 00	6	195 59	. . .	. . . . . .	. . .	. . . . .
Sheshequin township. . .	235,498 00	. . .	. . . . . .	4	1,442 50	3	770 00	4	1,030 00
Standing Stone township,	111,850 00	. . .	. . . . . .	4	706 26	8	894 80	2	254 00
Terry township, ...	92,190 00	. . .	. . . . . .	6	1,018 55	8	737 52	9	829 73
Towanda township, . . .	127,500 00	. . .	. . . . . .	4	1,009 02	16	1,463 69 765 02	. . .	. . . . .
Towanda, N., township,	72,460 00	. . .	. . . . . .	15	1,371 68	8	576 00	3	216 00
Towanda borough.	599,820 00	20	11,996 40	10	6,757 42	7	4,778 66	. . .	. . . . .
Troy township, ...	236,023 00	. . .	. . . . . .	6	1,938 29	3	678 00	4	904 50
Troy borough, ...	193,308 00	10	1,933 08	13	2,820 02	. . .	. . . . . .	. . .	. . . . .
Tuscarora township, . . .	158,000 00	. . .	. . . . . .	7	1,200 00	6	800 00	3	600 00
Ulster township, ...	153,000 00	. . .	. . . . . .	7	1,426 56	6	1,000 00	6	900 48
Warren township, ...	213,315 00	. . .	. . . . . .	5	1,314 93	10	2,133 15	1	213 31
Windham township, . . .	163,960 00	. . .	. . . . . .	5	819 80	15	2,459 40	. . .	. . . . .
Wyalusing township, . .	200,325 00	. . .	. . . . . .	9	2,318 52	10	3,003 20	6	1,186 06
Wysox township, ...	184,130 00	. . .	. . . . . .	4	1,148 62	6	904 00	3	555 00
Wells township, ...	150,158 00	. . .	. . . . . .	10	2,112 03	5	750 00	4	600 00
Wilmot township, ...	109,887 00	. . .	. . . . . .	16	2,077 00	4	436 00	3	327 00
Total, ...	$7,302,345 33	. . .	$15,707 43	. . .	$66,319 44	. . .	$53,782 43	. . .	$24,846 20

---

* Taken out of township tax.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of seven mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	......	$596 90	......	......	$2,500 00	$700 00	......	.....	248
......	$0 90	990 00	......	1½	2,100 00	......	......	.....	351
......	......	262 35	......	......	1,200 00	......	......	.....	171
.....	55 50	3,189 68	......	......	15,500 00	......	......	.....	1,120
......	12 00	1,357 70	......	2	2,500 00	......	......	.....	609
......	4 50	136 90	......	......	1,000 00	......	......	.....	80
......	80	977 13	......	......	3,500 00	1,050 00	......	.....	450
......	......	895 20	......	......	4,000 00	......	......	.....	202
......	7 70	764 20	......	......	3,000 00	......	......	.....	253
......	2 00	146 50	......	......	500 00	......	......	.....	69
......	23 69	1,598 62	......	2	5,000 00	......	......	.....	388
......	17 03	648 98	$600 00	......	10,000 00	......	......	.....	318
......	......	1,724 80	......	......	2,400 00	......	......	.....	393
......	14 40	608 50	......	......	500 00	......	......	.....	224
......	......	1,039 14	......	......	3,600 00	......	......	.....	275
......	......	790 63	......	......	5,000 00	......	......	.....	278
......	28 50	1,101 59	......	2	3,000 00	......	......	.....	348
......	6 09	1,145 63	......	......	3,000 00	......	......	.....	370
......	3 13	311 50	......	......	500 00	......	......	.....	122
......	33 21	1,075 84	......	......	3,200 00	......	......	.....	371
......	......	207 73	......	......	1,000 00	......	......	.....	115
......	9 60	1,294 06	......	2	3,500 00	......	......	.....	383
......	4 28	388 66	......	......	1,000 00	......	......	.....	170
......	32 74	1,597 61	......	......	2,500 00	......	......	.....	490
.....	2 79	1,208 57	......	......	2,800 00	......	......	.....	421
......	2 00	132 56	......	6	500 00	......	......	.....	74
......	......	1,058 37	......	......	3,000 00	......	......	.....	340
......	5 55	1,993 63	......	......	4,000 00	......	......	.....	491
......	81	1,636 90	......	......	3,500 00	......	......	.....	428
......	3 30	805 76	......	3	3,000 00	500 00	......	.....	320
......	......	136 10	......	......	500 00	......	......	.....	91
......	4 20	1,769 86	......	......	10,000 00	......	......	.....	453
......	14 73	797 84	......	......	4,800 00	......	......	.....	258
.....	......	637 10	......	2	3,000 00	......	......	.....	343
......	5 44	915 77	559 20	2	3,500 00	181 68	......	.....	361
......	18 70	569 73	......	5	2,500 00	......	......	.....	201
......	309 57	4,557 64	15,700 00	......	29,500 00	15,975 43	19,097 61	.....	1,198
......	3 00	1,749 44	......	1	3,500 00	......	......	.....	341
......	29 20	1,316 92	1,600 00	......	20,000 00	8,500 00	6,000 00	.....	397
......	......	872 00	......	......	8,000 00	......	......	.....	348
......	12 07	1,084 90	......	......	2,700 00	......	......	.....	362
......	7 20	1,465 99	......	......	8,400 00	......	......	.....	349
.....	6 90	1,127 25	......	......	3,000 00	......	......	.....	319
......	5 91	1,389 10	......	......	3,200 00	......	.....	.....	466
......	17 20	1,434 50	......	......	2,800 00	......	......	.....	427
......	3 00	1,142 32	......	......	2,500 00	......	......	.....	381
......	......	848 52	......	6	1,500 00	......	.....	.....	314
......	$703 10	$51,319 36	$18,259 20	......	$205,900 00	$26,907 11	$25,097 61	.....	16,571

BUCKS

	Whole amount of taxable property.	Rate of city or borough tax, (mills.)	Whole amount of city or borough tax.	Rate of school tax (mills.)	Whole amount of school tax.	Rate of township or road tax, (mills.)	Whole amount of township or road tax.	Rate of poor tax, (mills.)	Whole amount of poor tax.
Bristol township, ...	$587,309 00	. . .	. . . .	4½	$2,552 00	4½	$2,436 03	. . .	. . . . .
Bristol borough, ...	875,700 00	7½	$8,530 45	10	8,865 80	. . .	. . . .	. . .	. . . . .
Bensalem township, . . .	748,035 00	. . .	. . . .	5	3,740 00	2	1,498 00	. . .	. . . . .
Bedminster township, . .	628,480 00	. . .	. . . .	6	3,768 00	2	3,356 00	. . .	. . . . .
Buckingham township, .	1,053,409 00	. . .	. . . .	4	4,743 77	3½	3,509 13	. . .	. . . . .
Doylestown township,	667,114 00	. . .	. . . .	4	2,823 41	3	1,906 49	. . .	. . . . .
Doylestown borough, . .	536,111 00	. . .	*	6	3,098 84	. . .	. . . .	. . .	. . . . .
Durham township, ...	723,194 00	. . .	. . . .	4	2,500 00	1	723 00	. . .	. . . . .
Falls township, ...	955.889 00	. . .	. . . .	3½	4,101 12	3	3,001 88	. . .	. . . . .
Haycock township, . . .	226,929 00	. . .	. . . .	5	1,430 00	2	456 00	. . .	. . . . .
Hilltown township, . .	733,278 00	. . .	. . . .	4	4,332 00	2	1,466 00	. . .	. . . . .
Hulmeville borough, . .	64,490 00	. . .	*	. . .	. . . .	. . .	. . . .	. . .	. . . . .
Langhorne borough, . .	122,095 00	5	610 00	6	816 91	. . .	. . . .	. . .	. . . . .
Lower Makefield twp, . .	730,614 00	. . .	. . . .	7	5,428 12	6	4,167 16	. . .	. . . . .
Upper Makefield twp, . .	750,000 00		. . . .	5	3,567 35	5½	3,711 84	. . .	. . . . .
Middletown township, .	589,435 00	. . .	. . . .	4	2,713 00	3	1,769 00	. . .	. . . . .
Milford township, ...	591,502 00	. . .	. . . .	5	2,573 00	4	2,364 00	. .	. . . . .
Morrisville borough, . .	178,631 00	5	1,050 16	9	1,894 32	. . .	. . . .	. . .	. . . . .
New Hope borough, . . .	248,368 00	. .	. . . .	8	2,116 33	5	1,087 00	. . .	. . . . .
New Britain township, .	590,463 00	. . .	. . . .	4	2,858 00	3	1,770 00	. . .	. . . . .
Newtown borough, . . .	283,135 00	. . .	. . . .	5½	2,067 84	. . .	. . . .	. . .	. . . . .
Newtown township, . . .	436,149 00	. . .	. . . .	3½	1,851 06	2	1,226 13	. . .	. . . . .
Northampton township,	889,509 00	. . .	. . . .	5	4,921 00	3	2,667 00	. . .	. . . . .
Nockamixon township, .	375,000 00	. . .	. . . .	8	3,000 00	7	2,625 00	. . .	. . . . .
Plumstead town'oip, . .	775,399 00	. . .	. . . .	4	3,850 00	3	2,225 00	. . .	. . . . .
Quakertown borough, . .	287,323 28	. . .	. . . .	10	3,907 93	4	1,213 24	. . .	. . . . .
Richland township, . . .	470,259 00	. . .	. . . .	5	2,864 00	3	1.410 00	. . .	. . . . .
Rockwell township, . . .	679,680 00	. . .	. . . .	3½	3,180 00	2	1,358 00	. . .	. . . . .
Sellersville borough, . .	86,215 00	. . .	*	7	717 00	. . .	. . . .	. .	. . . . .
Southampton township, .	522,885 00	. . .	. . . .	5	3,000 00	3	1,566 00	. . .	. . . . .
Solebury township, . . .	902,799 00	. .	. . . .	5	5,232 00	2	1,804 00	. . .	. . . . .
Springfield township, . .	653,137 00	. . .	. . . .	4	3,914 00	2	1,706 00	. . .	. . . . .
Tinicum township, . . .	515,234 00	. . .	. . . .	4	2,712 00	2	1,030 00	. . .	. . . . .
Warrington township, .	330,045 00	. . .	. . . .	4	1,575 00	4	1,320 00	. . .	. . . . .
Warminster township, .	409,178 00	. . .	. . . .	3½	1,760 00	2 4-5	1,145 00	. . .	. . . . .
Warwick township, . . .	287,420 00	. . .	. . . .	5	1,563 27	5 3-10	1,523 32	. . .	. . . . .
Wrightstown township, .	298,655 00	. . .	. . . .	4	1,392 43	3 7-10	1,125 93	. . .	. . . . .
Total, ...	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . . .

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of six mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes, (mills.)	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$139 40	$3,711 09	. . . . . .	. . . . . .	$14,000 00	. . . . . .	. . . . . .	. . . . .	520
. . . . . .	422 65	5,249 28	$600 00	. . . . . .	16,500 00	$7,771 13	. . . . . .	. . . . .	1,274
. . . . . .	45 90	4,488 21	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	573
. . . . . .	290 79	3,770 88	. . . . . .	. . . . . .	7,500 00	. . . . . .	. . . . . .	. . . . .	603
. . . . . .	434 03	6,320 45	. . . . . .	. . . . . .	15,000 00	. . . . . .	. . . . . .	. . . . .	763
. . . . . .	234 24	3,741 12	. . . . . .	. . . . . .	9,000 00	178 15	. . . . . .	. . . . .	548
. . . . . .	261 64	3,216 66	. . . . . .	. . . . . .	4,500 00	. . . . . .	. . . . . .	. . . . .	587
. . . . . .	94 42	2,485 50	1,964 45	. . . . . .	5,050 00	. . . . . .	. . . . . .	. . . . .	365
. . . . . .	872 88	5,716 60	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	613
. . . . . .	55 30	1,361 57	. . . . . .	. . . . . .	1,800 00	. . . . . .	. . . . . .	. . . . .	348
. . . . . .	587 43	4,399 60	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	770
. . . . . .	18 85	386 84	. . . . . .	. . . . . .	500 00	. . . . . .	. . . . . .	. . . . .	100
. . . . . .	215 30	732 57	. . . . . .	. . . . . .	3,500 00	900 00	. . . . . .	. . . . .	158
. . . . . .	456 10	4,378 72	4,550 00	. . . . . .	15,000 00	. . . . . .	. . . . . .	. . . . .	622
. . . . . .	222 65	3,987 46	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	434
. . . . . .	97 97	3,536 84	. . . . . .	. . . . . .	2,000 00	. . . . . .	. . . . . .	. . . . .	357
. . . . . .	498 43	3,149 01	. . . . . .	. . . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	797
. . . . . .	183 42	1,262 65	1,500 00	. . . . . .	5,000 00	1,100 00	$2,000 00	. . . . .	284
. . . . . .	161 28	1,559 20	. . . . . .	. . . . . .	1,500 00	. . . . . .	. . . . . .	. . . . .	340
. . . . . .	743 74	3,542 78	. . . . . .	. . . . . .	1,800 00	400 00	. . . . . .	. . . . .	498
. . . . . .	256 75	1,675 11	2,000 00	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	290
. . . . . .	157 05	2,655 80	2,750 00	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	270
. . . . . .	358 76	8,337 05	. . . . . .	. . . . . .	9,000 00	. . . . . .	. . . . . .	. . . . .	476
. . . . . .	129 47	2,081 74	. . . .	. . . . . .	16,000 00	. . . . . .	. . . . . .	. . . . .	689
. . . . . .	711 68	4,652 39	. . . . . .	. . . . . .	6,500 00	. . . . . .	. . . . . .	. . . . .	755
. . . . . .	261 91	1,718 80	. . . . . .	. . . . . .	7,000 00	. . . . . .	. . . . . .	. . . . .	455
. . . . . .	294 10	2,821 55	. . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	514
. . . . . .	159 30	4,078 08	. . . . . .	. . . . . .	5,500 00	. . . . . .	. . . . . .	. . . . .	842
. . . . . .	121 00	517 29	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	115
. . . . . .	224 70	3,137 21	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	395
. . . . . .	698 65	5,416 75	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	722
. . . . . .	182 78	3,918 82	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	702
. . . . . .	188 62	3,091 04	. . . . . .	. . . . . .	4,500 00	. . . . . .	. . . . . .	. . . . .	652
. . . . . .	92 21	2,084 37	. . . . . .	. . . . . .	3,500 00	. . . . . .	. . . . . .	. . . . .	255
. . . . . .	182 32	2,492 15	. . . . . .	. . . . . .	1,000 00	26 00	. . . . . .	. . . . .	287
. . . . . .	58 80	1,699 91	100 00	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	227
. . . . . .	290 00	1,884 68	. . . . . .	. . . . . .	6,587 00	. . . . . .	. . . . . .	. . . . .	211
. . . . . .	$10,404 52	$116,223 77	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . .	18,461

BUTLER

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Adams township, ...	$182,879 00	. . .	. . . .	8	$1,730 00	10	$1,828 00	. . .	. . . . .
Allegheny township, . .	153,000 00	. . .	. . . .	6	918 00	10	1,530 00	. . .	. . . . .
Butler township, ...	180,080 66	. . .	. . . .	6	1,151 47	10	1,880 66	3	$535 92
Brady township, ...	110,317 00	. . .	. . . .	8	1,012 53	8	882 53	2	218 42
Buffalo township, . . .	191,957 00	. . .	. . . .	8	1,535 65	10	1,919 57	. . .	. . . . .
Canton township, ...	183,339 00	. . .	. . . .	8	1,780 71	8	1,466 71	. . .	. . . . .
Centre township, ...	160,000 00	. . .	. . . .	4	640 00	10	1,600 00	4	640 00
Clay township, ...	162,474 00	. . .	. . . .	8	1,299 97	10	1,624 74	4	649 89
Cherry township, ...	168,506 00	. . .	. . . .	5	842 50	8	1,348 00	2	337 01
Cranberry township, . .	178,722 00	. . .	. . . .	5	893 61	8	1,429 77	1½	268 08
Concord township, . . .	126,379 00	. . .	. . . .	5½	1,285 89	8	1,011 00	. . .	. . . . .
Clearfield township, . . .	238,647 00	. . .	. . . .	9	2,149 98	9	1,511 89	. . .	. . . . .
Connoquenessing twp., .	175,310 00	. . .	. . . .	8	1,354 00	8	1,402 48	3	590 10
Donegal township, . . .	315,737 00	. . .	. . . .	4	1,319 00	10	2,549 58	. . .	. . . . .
Fairview township, . . .	605,206 00	. . .	. . . .	5	4,210 03	8	4,841 64	. . .	. . . . .
Forward township, . . .	155,390 00	. . .	. . . .	6	1,168 70	10	1,533 90	3	466 17
Franklin township, . . .	178,624 00	. . .	. . . .	6	1,346 74	8	1,489 92	. . .	. . . . .
Jefferson township, . . .	206,901 00	. . .	. . . .	2½	904 25	10	2,069 00	. . .	. . . . .
Jackson township, ...	181,341 00	. . .	. . . .	7	1,269 38	8	1,450 72	2	362 68
Lancaster township, . . .	163,418 00	. . .	. . . .	6	1,405 50	8	1,279 92	. . .	. . . . .
Muddy Creek township, .	172,754 00	. . .	. . . .	7	1,270 54	8	1,382 03	2	345 50
Mercer township, ...	132,000 00	. . .	. . . .	5	660 00	8	1,056 00	. .	. . . . .
Middlesex township, . .	185,582 00	. . .	. . . .	7	1,365 00	8	1,484 65	2	371 16
Marion township, ...	153,415 00	. . .	. . . .	4	906 66	10	1,534 15	. . .	. . . . .
Oakland township, . . .	168,978 00	. . .	. . . .	10	1,873 39	10	1,689 78	. . .	. . . . .
Penn township, ...	162,754 00	. .	. . . .	5	1,036 77	10	1,672 54	4	651 00
Summit township, ...	168,450 00	. . .	. . . .	6	1,122 70	10	1,684 50	4	673 80
Parker township, ...	304,009 00	. . .	. . . .	7	2,128 06	10	3,040 09	6	1,824 05
Slippery Rock township,	196,053 00	. . .	. . . .	8	1,868 42	10	1,960 53	. . .	. . . . .
Venango township, . . .	147,688 00	. . .	. . . .	5	1,054 44	10	1,476 88	. . .	. . . . .
Washington township, .	192,662 00	. . .	. . . .	10	2,107 42	10	1,926 62	2	385 00
Windfield township, . . .	179,276 00	. . .	. . . .	2	698 55	. . .	. . . .	. . .	. . . . .
Worth township, ...	173,711 00	. . .	. . . .	6	1,536 30	5	1,141 62	1½	259 08
Butler borough, ...	540,079 00	10	5,776 29	12	6,950 39	3	1,620 22	. . .	. . . . .
Centreville borough, . .	49,600 00	. . .	*	7	475 20	. . .	. . . .	. . .	. . . . . .
Fairview borough, ...	45,210 00	. . .	*	13	735 73	. . .	. . . .	. . .	. . . . . .
Millerstown borough, . .	129,000 00	30	3,870 00	26	3,354 00	4	516 00	. . .	. . . . . .
Prospect borough, ...	50,278 00	. . .	*	5	361 39	. . .	. . . .	. .	. . . . . .
Petrolia borough, ...	131,739 00	10	1,317 39	26	3,425 00	10	1,317 39	. . .	. . . . . .
Portersville borough, . .	25,736 00	. . .	*	6	216 42	. . .	. . . .	. . .	. . . . . .
Saxonburg borough, . . .	31,795 00	. . .	. . . .	6	200 80	. . .	. . . .	. . .	. . . . . .
Zelienople borough, . . .	52,625 00	8	421 25	4	242 10	½	27 00	. . .	. . . . . .
Karns City borough, . . .	105,000 00	30	4,450 00	13	1,400 00	. . .	. . . .	. . .	. . . . . .
Sunbury borough, ...	28,665 00	8	602 28	8	229 64	. . .	. . . .	. . .	. . . . . .
Greece City borough, . .	35,295 00	5	176 47	10	352 95	. . .	. . . .	5	176 47
Harmony borough, . . .	55,266 00	2	250 00	5	318 00	10	525 00	. . .	. . . . . .
Harrisville borough, . .	49,008 00	. . .	*	10	625 08	. . .	. . . .	. . .	. . . . . .
Total, ...	$7,684,855 66	. . .	$16,863 68	. . .	$64,732 86	. . .	$58,705 03	. . .	$8,754 33

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of eight mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	......	$1,463 03	......	......	$3,500	......	......	......	274
......	......	1,228 79	$757 00	......	5,000	......	......	......	341
......	......	1,504 52	......	......	3,600	......	......	......	304
......	......	885 35	......	......	900	......	......	......	210
......	......	1,535 64	......	......	3,000	......	......	......	317
......	......	1,466 71	......	......	2,500	......	......	......	314
......	......	1,292 41	......	......	2,000	......	......	......	236
......	......	1,299 48	......	......	2,800	......	......	......	277
......	......	1,347 79	......	......	4,000	......	......	......	257
......	......	1,429 78	......	......	5,010	......	......	......	252
......	......	2,611 03	......	......	1,200	......	......	......	591
......	......	1,300 18	......	......	1,800	......	......	......	267
......	......	1,400 48	......	......	4,000	......	......	......	328
......	......	2,526 43	......	6	3,500	......	......	......	617
......	......	4,840 04	......	......	6,500	......	......	......	1,195
......	......	1,243 08	......	......	3,000	......	......	......	300
......	......	1,428 67	......	......	5,000	......	......	......	275
......	......	1,654 71	......	......	......	......	......	......	387
......	......	1,452 05	......	3	4,000	......	......	......	336
......	......	1,307 44	......	......	2,800	......	......	......	263
......	......	1,382 94	......	......	6,000	$50 00	......	......	232
......	......	877 53	......	......	1,200	......	......	......	213
......	......	1,448 78	......	......	5,000	......	......	......	272
......	......	1,227 27	......	......	2,800	......	......	......	293
......	......	1,287 96	......	......	3,000	......	......	......	295
......	......	1,302 03	......	......	1,800	......	......	......	265
......	......	1,370 16	231 19	2	6,000	......	......	......	303
......	......	2,431 51	......	2	4,500	......	......	......	612
......	......	1,568 41	......	......	4,000	......	......	......	261
......	......	1,181 50	......	......	2,500	......	......	......	316
......	......	1,541 29	......	5	5,700	......	......	......	252
......	......	1,433 79	......	......	3,500	......	......	......	340
......	......	1,447 77	......	......	3,000	......	......	......	274
......	......	4,320 05	11,300 00	......	40,000	5,000 00	......	......	764
......	......	399 75	......	......	1,000	......	......	......	128
......	......	361 68	......	......	900	......	......	......	148
......	......	1,638 00	5,000 00	......	5,000	5,000 00	$22,000 00	......	622
......	......	404 84	......	......	1,400	......	......	......	110
......	......	1,053 91	900 00	......	3,500	1,000 00	100 00	......	472
......	......	205 88	......	......	700	......	......	......	62
......	......	254 35	......	......	700	......	500 00	......	100
......	......	425 00	......	......	1,400	......	......	......	128
......	......	748 88	......	......	1,500	......	......	......	410
......	......	229 34	......	......	2,000	......	......	......	103
......	......	285 46	......	......	200	......	......	......	90
......	......	442 14	......	......	400	600 00	......	......	132
......	......	392 06	......	......	700	......	......	......	135
......	......	$62,014 63	$18,188 19	......	$172,510	$11,650 00	$22,600 00	......	14,573

CAMBRIA

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Adams township,	$84,642 00	...	......	11	$931 00	12	$1,015 00	...	......
Allegheny township,	138,056 00	...	......	6	828 33	6	828 33	...	......
Barr township,	72,433 00	...	......	7	507 03	10	724 33	...	......
Blacklick township,	60,000 00	...	......	8	1,030 00	10	571 45	...	......
Cambria township,	171,205 00	...	......	6	1,258 00	8	1,369 64	...	......
Carroll township,	130,885 00	...	......	12	1,822 62	8	1,047 08	...	......
Carrolltown borough,	47,112 00	...	*	6	384 67	...	......	...	......
Chest township,	62,882 00	...	......	5	486 41	10	628 82	...	......
Chest Springs borough,	19,586 00	...	*	...	......	...	......	...	......
Clearfield township,	99,578 00	...	......	10	1,035 72	10	995 78	...	......
Conemaugh township,	51,764 00	...	......	6	376 47	10	515 84	...	......
Conemaugh borough,	129,803 00	...	*	10	1,806 03	...	......	...	......
Coopersdale borough,	24,618 00	4	$99 57	26	640 07	...	......	...	......
Croyle township,	69,000 00	...	......	11	900 00	12	1,048 43	...	......
East Conemaugh borough	85,705 00	5	419 60	6	901 60	...	......	...	......
Ebensburg borough,	174,990 00	...	*	8	1,695 00	...	......	...	......
Franklin borough,	47,022 00	10	470 22	6	670 47	...	......	...	......
Gallitzin township,	55,851 00	...	......	4	314 62	10	558 51	...	......
Gallitzin borough,	42,000 00	5	210 00	10	559 11	...	......	...	......
Jackson township,	110,319 00	...	......	13	1,624 15	...	......	...	......
Johnstown borough,	798,988 00	...	*	10	9,389 88	...	......	...	......
Loretto borough,	32,423 00	...	*	8	2,659 84	...	......	...	......
Millville borough,	465,452 00	...	......	15	1,291 78	10	4,654 52	...	......
Munster township,	69,428 33	...	......	6	416 57	8	555 40	...	......
Prospect borough,	23,110 00	...	*	5	191 55	...	......	...	......
Richland township,	118,688 00	...	......	6	922 52	10	1,206 43	...	......
Summer Hill township,	75,804 00	...	......	11	833 84	10	758 04	...	......
Summitville borough,	10,665 00	4	......	10	137 65	...	41 34	...	......
Susquehanna township,	70,067 00	...	......	13	1,155 00	10	786 47	...	......
Taylor township,	146,838 00	...	......	10	1,689 38	10	1,468 38	...	......
Washington township,	155,211 00	...	......	10	1,721 51	10	1,552 11	...	......
White township,	193,041 00	...	......	10	2,239 41	10	1,930 41	...	......
Wilmore borough,	32,183 00	6	207 53	10	604 52	...	......	...	......
Woodvale borough,	165,000 00	5	825 00	9	1,550 00	...	......	...	......
Yoder township,	140,400 00	...	......	10	1,404 00	10	1,404 00	...	......
Total,	$4,174,749 33	...	$2,231 92	...	$43,978 75	...	$23,660 31	...	......

CAMERON

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Emporium borough,	$138,836 00	8	$1,125 44	12	$1,681 16	...	......	5	$694 65
Shippen township,	239,525 00	...	......	12	2,874 30	20	$4,790 50	...	......
Portage township,	34,099 00	...	......	5	183 00	10	340 99	...	......
Lumber township,	51,874 00	...	......	10	518 74	10	518 74	5	259 37
Driftwood borough,	36,155 00	...	*	13	628 01	..	......	...	......
Gibson township,	132,056 00	...	......	10	1,320 56	10	1,320 56	5	660 28
Grove township,	114,411 00	...	......	8	955 75	10	1,144 11	5	572 06
Total,	$746,956 00	...	$1,125 44	...	$8,161 52	...	$8,114 90	...	$2,186 36

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$31 05	$971 70	......	......	$3,000 00	......	......	......	210
......	48 60	1,460 81	$355 00	......	4,500 00	......	......	......	303
......	17 26	738 25	......	......	500 00	......	......	......	190
......	15 94	672 21	......	7	1,300 00	$100 00	......	......	136
......	54 44	1,722 15	......	4	6,000 00	75 00	......	......	234
......	45 05	1,308 85	......	......	4,200 00	......	......	......	252
......	28 88	471 12	......	......	1,500 00	......	......	......	102
......	26 23	975 93	......	......	3,600 00	175 00	......	......	187
......	8 77	195 86	......	......	......	......	......	......	71
......	51 13	1,230 01	159 58	......	2,500 00	350 00	......	......	342
......	10 89	560 88	......	......	830 00	32 97	......	......	78
......	52 00	1,298 03	......	......	4,000 00	......	......	......	508
......	11 36	248 23	3,100 00	13	2,000 00	......	......	......	53
......	30 11	815 72	......	......	4,000 00	......	......	......	211
......	17 03	840 50	2,000 00	......	4,000 00	......	......	......	112
......	61 56	1,749 90	......	......	5,500 00	......	......	......	295
......	17 18	470 22	375 00	6	1,500 00	......	......	......	131
......	15 02	691 18	......	......	1,000 00	......	......	......	121
......	21 71	441 26	......	......	2,000 00	......	......	......	141
......	25 08	1,103 19	......	......	3,500 00	......	......	......	190
......	266 53	7,989 88	......	......	*	......	......	......	1,400
......	16 17	324 23	......	......	1,000 00	......	......	......	66
......	58 60	4,701 00	......	3	40,000 00	......	......	......	454
......	23 18	510 03	......	......	2,000 00	50 00	......	......	137
......	6 42	231 10	......	......	700 00	......	......	......	76
......	32 73	1,185 83	......	......	3,600 00	......	......	......	206
......	17 45	778 20	......	......	2,400 00	......	......	......	134
......	4 91	110 20	......	......	200 00	......	......	......	39
......	26 84	800 75	......	......	3,000 00	......	......	......	174
......	30 11	1,468 38	......	......	2,800 00	......	......	......	221
......	67 91	1,816 39	400 00	......	5,000 00	......	......	......	306
......	72 30	1,930 41	......	......	3,500 00	......	......	......	309
......	16 01	330 50	500 00	8	1,500 00	230 00	......	......	88
......	16 48	1,671 65	......	......	3,000 00	......	......	......	104
......	32 02	1,623 78	......	......	5,040 00	......	......	......	276
......	$1,315 00	$44,849 79	$6,889 58	......	$129,170 00	$1,012 97	......	......	8,302

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	......	$1,338 36	......	......	$3,000 00	$112 00	$1,000 00	......	395
......	......	2,382 98	$1,975 81	6	6,100 00	6,935 17	......	......	245
......	......	344 97	......	......	500 00	......	......	......	32
......	......	1,422 14	......	......	3,290 00	3,502 85	......	......	230
......	......	370 15	......	......	2,000 00	......	......	......	158
......	......	1,318 70	14 60	5	3,150 00	800 00	......	......	226
......	......	1,039 77	......	8	3,500 00	1,000 00	......	......	128
......	$72 90	$8,267 37	$1,990 41	......	$21,540 00	$12,350 02	......	......	1,414

* Not reported.

CARBON

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Mauch Chunk,	$665,452 86	7	$4,658 17	10	$6,655 22	...	...	5	$3,327 61
Lehighton borough,	267,117 00	...	*	13	4,000 00	...	...	...	...
E. Mauch Chunk boro',	199,892 00	3	595 00	15	2,998 00	...	...	5	996 00
Weatherly borough,	165,334 00	...	*	13	2,617 34	...	...	...	...
Parryville borough,	79,631 00	...	*	9	821 68	...	...	...	...
Weissport borough,	48,930 00	10	489 00	10	489 00	...	...	3	146 00
Banks township,	365,000 00	...	...	13	7,271 11	8	2,916 27	5	1,814 32
Lehigh township,	50,000 00	...	...	13	750 00	8	400 00	5	200 00
Packer township,	65,551 00	...	...	6	425 00	10	655 51	...	...
Franklin township,	123,433 00	...	...	8	1,286 05	4	640 04	7	1,115 95
Mahoning township,	312,256 00	...	...	10	3,596 56	8	2,498 05	...	...
Towamensing township,	104,134 00	...	...	12	1,447 61	5	520 67	...	...
Lower Towamensing tp.,	193,849 00	...	...	9	2,207 64	5	969 25	...	...
Lausanne township,	46,116 00	...	...	12	650 00	10	461 16	5	230 55
East Penn township,	147,172 00	...	...	6	1,080 00	5	735 86	...	...
Penn Forest township,	52,946 00	...	...	13	791 29	10	529 46	...	...
Kidder township,	112,467 00	...	...	12	1,596 60	5	562 33	...	...
Mauch Chunk township,	570,398 00	...	...	10	6,690 00	5	2,852 00	...	...
Total,	$3,569,678 86	...	$5,742 17	...	$45,373 10	...	$13,740 60	...	$7,830 43

CENTRE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Bellefonte borough,	$945,955	...	*	5	$5,566 77	...	...	...	...
Boggs township,	308,974	...	...	9	3,246 77	3	$926 92	...	...
Bonner township,	411,943	...	...	3	1,635 83	3	1,235 83	...	...
Burnside township,	101,576	...	...	5	500 00	5	500 00	...	...
Curtin township,	57,222	...	...	5	430 11	10	572 22	...	...
College township,	606,676	...	...	1	606 00	1¾	1,061 68	1¼	$758 35
Furguson township,	77,000	...	...	2½	2,000 00	2	1,540 00	...	...
Gregg township,	796,584	...	...	3½	2,449 11	2½	1,972 55	2¼	1,745 29
Harris township,	447,195	...	...	2½	1,117 98	2¼	1,006 18	2	894 39
Haines township,	599,546	...	...	2	1,514 05	2½	1,436 96	...	...
Howard township,	200,000	...	...	7	1,481 60	7	1,403 25	3	635 50
Howard borough,	68,633	...	*	6	527 80	...	...	...	...
Huston township,	110,527	...	...	6	917 16	5	552 63	...	...
Half Moon township,	257,452	...	...	3	771 45	2	514 30	...	...
Liberty township,	198,832	...	...	6	1,401 77	10	1,988 77	7	1,391 82
Marion township,	331,258	...	...	2	662 51	3	993 77	1	331 25
Miles township,	520,050	...	...	2	1,515 00	2	1,040 00	...	...
Milesburg borough,	109,686	5	$540 69	8	950 29	...	...	5	521 14
Phillipsburg borough,	219,051	...	*	8	2,187 41	...	...	...	...
Potter township,	931,935	...	...	3½	3,961 77	2	1,863 87	...	...
Patton township,	267,885	...	...	2½	669 71	2½	669 71	2	535 77
Penn township,	453,329	...	...	2	1,205 40	3.1	1,408 56	1 5-9	708 05
Rush township,	203,934	...	...	6	1,653 60	2	551 20	...	...
Snow Shoe township,	76,195	...	...	5	584 01	10	772 48	10	772 48
Spring township,	599,858	...	...	2½	1,925 61	5½	3,299 21	5	2,999 29
Taylor township,	160,000	...	...	4	803 00	8	1,606 00	...	...
Union township,	120,000	...	...	7	1,213 32	8	1,074 73	3	497 69
Unionville borough,	57,130	none	...	7	399 91	...	...	none	...
Walker township,	641,910	...	...	2	1,610 82	2	1,283 82	2	1,283 82
Worth township,	80,089	...	...	8	640 71	6	480 53	9	720 80
Total,	$9,960,425	...	$540 69	...	$44,149 47	...	$29,755 17	...	$13,795 64

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school tax, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$152 45	$6,601 63	. . . . . .	. . . . . .	$25,000 00	. . . . . .	$7,000 00	. . . . .	$1,060
. . . . . .	36 05	2,671 17	. . . . . .	. . . . . .	15,000 00	. . . . . .	. . . . . .	. . . . .	528
. . . . . .	68 70	1,989 92	$6,700 00	. . . . . .	14,000 00	. . . . . .	. . . . . .	. . . . .	440
. . . . . .	30 05	1,653 34	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	468
. . . . . .	5 40	796 31	. . . . . .	. . . . . .	5,500 00	. . . . . .	. . . . . .	. . . . .	105
. . . . . .	4 15	497 80	1,500 00	10	4,000 00	. . . . . .	. . . . . .	6,000 00	93
. . . . . .	24 15	3,627 70	4,744 10	. . . . . .	13,000 00	. . . . . .	. . . . . .	. . . . .	1,066
. . . . . .	3 25	490 89	. . . . . .	2	2,500 00	. . . . . .	. . . . . .	. . . . .	149
. . . . . .	4 50	677 71	. . . . . .	. . . . . .	500 00	. . . . . .	. . . . . .	. . . . .	91
. . . . . .	9 10	1,606 45	. . . . . .	. . . . . .	5,200 00	. . . . . .	. . . . . .	9,487 57	471
. . . . . .	31 54	3,122 56	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	474
. . . . . .	11 05	1,041 34	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	198
. . . . . .	25 04	1,938 49	. . . . . .	. . . . . .	7,000 00	. . . . . .	. . . . . .	. . . . .	463
. . . . . .	11 50	461 16	. . . . . .	. . . . . .	1,000 00	. . . . . .	. . . . . .	. . . . .	185
. . . . . .	28 50	1,471 72	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	197
. . . . . .	4 30	529 46	. . . . . .	. . . . . .	1,200 00	. . . . . .	. . . . . .	. . . . .	103
. . . . . .	21 75	1,124 67	. . . . . .	. . . . . .	5,200 00	. . . . . .	. . . . . .	. . . . .	247
. . . . . .	12 35	5,703 98	. . . . . .	. . . . . .	15,000 00	. . . . . .	. . . . . .	. . . . .	986
. . . . . .	$487 48	$38,861 36	$12,944 10	. . . . .	$145,100 00	. . . . . .	$7,000 00	15,487 57	7,756

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of four mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$314 66	$3,783 82	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . .	837
. . . . . .	123 68	1,235 81	. . . . . .	. . . . . .	$3,000	. . . . . .	. . . . . .	. . . . .	466
. . . . . .	79 18	1,647 76	. . . . . .	. . . . . .	4,000	. . . . . .	. . . . . .	. . . . .	366
. . . . . .	23 79	182 45	. . . . . .	. . . . . .	1,500	. . . . . .	. . . . . .	. . . . .	110
. . . . . .	29 78	228 84	. . . . . .	. . . . . .	2,500	. . . . . .	. . . . . .	. . . . .	144
. . . . . .	180 57	2,426 72	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	419
. . . . . .	162 04	3,051 65	. . . . . .	. . . . . .	9,000	. . . . . .	. . . . . .	. . . . .	475
. . . . . .	185 96	3,182 76	. . . . . .	. . . . . .	7,200	. . . . . .	. . . . . .	. . . . .	485
. . . . . .	148 37	1,788 75	. . . . . .	. . . . . .	4,000	. . . . . .	. . . . . .	. . . . .	304
. . . . . .	234 08	2,416 11	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	439
. . . . . .	91 55	773 85	. . . . . .	. . . . . .	5,000	$100 00	. . . . . .	. . . . .	274
. . . . . .	23 24	274 53	. . . . . .	. . . . . .	4,000	. . . . . .	. . . . . .	. . . . .	116
. . . . . .	37 64	442 25	. . . . . .	. . . . . .	2,000	. . . . . .	. . . . . .	. . . . .	254
. . . . . .	70 35	1,025 49	. . . . . .	. . . . . .	2,500	. . . . . .	. . . . . .	. . . . .	183
. . . . . .	67 59	795 69	$1,555 70	. . . . . .	5,500	800 00	. . . . . .	. . . . .	347
. . . . . .	48 67	1,303 26	. . . . . .	. . . . . .	3,100	. . . . . .	. . . . . .	. . . . .	187
. . . . . .	177 85	2,080 21	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	475
. . . . . .	35 25	438 77	200 00	. . . . . .	8,000	692 41	$75 00	. . . . .	212
. . . . . .	78 96	876 10	. . . . . .	. . . . . .	15,000	. . . . . .	. . . . . .	. . . . .	435
. . . . . .	261 46	3,727 74	. . . . . .	. . . . . .	10,000	. . . . . .	. . . . . .	. . . . .	700
. . . . . .	48 70	1,106 94	. . . . . .	3	3,800	. . . . . .	. . . . . .	. . . . .	165
. . . . . .	138 98	1,916 99	. . . . . .	. . . . . .	4,000	. . . . . .	. . . . . .	. . . . .	400
. . . . . .	73 33	815 94	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	430
. . . . . .	72 49	303 90	26 00	. . . . . .	3,000	500 00	. . . . . .	. . . . .	310
. . . . . .	156 79	2,399 47	. . . . . .	. . . . . .	7,933	. . . . . .	. . . . . .	. . . . .	524
. . . . . .	36 77	394 29	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	163
. . . . . .	60 01	422 46	. . . . . .	3	2,500	. . . . . .	. . . . . .	. . . . .	250
. . . . . .	21 16	204 13	. . . . . .	. . . . . .	1,500	. . . . . .	. . . . . .	. . . . .	96
. . . . . .	137 10	2,586 16	. . . . . .	. . . . . .	7,200	. . . . . .	. . . . . .	. . . . .	378
. . . . . .	30 77	319 62	298 00	. . . . . .	1,500	300 00	. . . . . .	. . . . .	212
. . . . . .	$3,150 73	$42,152 43	$2,079 70	. . . . . .	$142,733	$2,392 41	$75 00	. . . . .	10,677

CHESTER

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Atglen borough,	$160,000 00	4	$640 00	4½	$720 00	. . .	. . . . . .	. . .	. . . . . .
Birmingham township,	529,839 00	. . .	. . . . . .	1¾	880 00	1¼	$662 00	. . .	. . . . . .
Bradford, East, township	1,398,926 00	. . .	. . . . . .	1½	2,098 39	2	2,760 26	. . .	. . . . . .
Bradford, West, township	766,862 00	. . .	. . . . . .	3¼	2,784 51	1½	1,350 00	. . .	. . . . . .
Brandywine, East, twp.,	475,949 00	. . .	. . . . . .	2½	1,359 49	2⅜	1,400 12	. . .	. . . . . .
Brandywine, West, twp.,	540,567 00	. . .	. . . . . .	2	1,579 93	2	1,433 91	. . .	. . . . . .
Caln township,	603,834 00	. . .	. . . . . .	1¾	1,305 70	3	1,811 50	. . .	. . . . . .
Caln, East, township,	232,000 00	. . .	. . . . . .	1½	558 97	1⅛	270 14	. . .	. . . . . .
Caln, West, township,	676,078 00	. . .	. . . . . .	2½	2,631 09	5	3,380 39	. . .	. . . . . .
Charlestown township,	708,600 00	. . .	. . . . . .	2¼	1,718 44	2½	1,725 48	. . .	. . . . . .
Coatesville borough,	1,472,661 00	7	10,308 62	4	5,890 64	. . .	. . . . . .	. . .	. . . . . .
Coventry, North, twp.,	825,332 00	. . .	. . . . . .	1½	1,360 48	2	1,542 34	. . .	. . . . . .
Coventry, South, twp.,	246,500 00	. . .	. . . . . .	2	500 00	3	740 00	. . .	. . . . . .
Coventry, East, township	653,085 00	. . .	. . . . . .	1½	1,283 20	3	2,231 26	. . .	. . . . . .
Downingtown borough,	625,285 00	3½	2,196 49	4	2,818 05	. . .	. . . . . .	. . .	. . . . . .
Easttown township,	567,973 00	. . .	. . . . . .	3	1,805 91	2½	1,467 43	. . .	. . . . . .
Elk township,	392,880 00	. . .	. . . . . .	2¼	1,204 20	2	785 00	. . .	. . . . . .
Fallowfield, East, twp.,	946,388 88	. . .	. . . . . .	2½	2,365 97	3¼	2,928 93	. . .	. . . . . .
Fallowfield, West, twp.,	599,212 00	. . .	. . . . . .	4	2,642 84	2⅝	1,552 81	. . .	. . . . . .
Franklin township,	593,552 00	. . .	. . . . . .	4	2,374 20	2	1,184 10	. . .	. . . . . .
Goshen, East, township,	633,676 00	. . .	. . . . . .	1	1,459 80	1¼	800 72	. . .	. . . . . .
Goshen, West, township,	821,858 00	. . .	. . . . . .	2	1,860 72	2	1,643 71	. . .	. . . . . .
Highland township,	656,618 00	. . .	. . . . . .	3	2,000 00	2½	1,953 88	. . .	. . . . . .
Honeybrook township,	1,196,802 00	. . .	. . . . . .	3	4,202 41	2	2,393 60	. . .	. . . . . .
Hopewell borough,	79,035 00	. . .	*	2½	482 59	. . .	. . . . . .	. . .	. . . . . .
Kennett borough,	500,000 00	3	1,500 00	5	2,500 00	. . .	. . . . . .	. . .	. . . . . .
Kennett township,	1,000,000 00	. . .	. . . . . .	2¼	2,250 52	1½	1,700 00	. . .	. . . . . .
London Britain township	396,077 00	. . .	. . . . . .	2¼	1,046 17	2	792 15	. . .	. . . . . .
Londonderry township,	442,537 00	. . .	. . . . . .	2¼	1,201 70	2	885 07	. . .	. . . . . .
London Grove township,	1,353,245 00	. . .	. . . . . .	3	4,607 73	1½	2,029 87	. . .	. . . . . .
Marlborough, West, twp.,	854,389 00	. . .	. . . . . .	2½	1,954 62	2½	2,428 42	. . .	. . . . . .
Marlborough, East, twp.,	1,061,476 00	. . .	. . . . . .	2½	2,653 69	1 6-10	1,707 82	. . .	. . . . . .
Nantmeal, East, township	663,517 00	. . .	. . . . . .	2¼	1,742 91	2	1,327 03	. . .	. . . . . .
Nantmeal, West, towns'p,	750,339 00	. . .	. . . . . .	1¾	1,438 55	1¾	1,440 16	. . .	. . . . . .
New Garden township,	1,207,639 00	. . .	. . . . . .	2	2,415 26	1⅓	1,610 18	. . .	. . . . . .
New London township,	547,543 00	. . .	. . . . . .	2½	1,300 00	2½	1,300 00	. . .	. . . . . .
Newlin township,	608,512 00	. . .	. . . . . .	1¾	1,300 00	1½	1,116 00	. . .	. . . . . .
Nottingham, East, twp.,	691,939 00	. . .	. . . . . .	3¼	2,695 11	1¼	773 34	. . .	. . . . . .
Nottingham, West, twp.,	285,000 00	. . .	. . . . . .	1½	621 48	4	1,140 00	. . .	. . . . . .
Oxford borough,	776,833 00	. . .	*	3	2,670 50	. . .	. . . . . .	. . .	. . . . . .
Oxford, Upper, township,	586,188 00	. . .	. . . . . .	2 1-5	1,395 15	2	1,225 96	. . .	. . . . . .
Oxford, Lower, township,	648,103 00	. . .	. . . . . .	3¾	2,733 39	2	1,296 20	. . .	. . . . . .
Parkesburg borough,	327,855 00	. . .	*	3	1,185 56	. .	. . . . . .	. . .	. . . . . .
Penn township,	442,047 00	. .	. . . . . .	3	1,497 65	2½	1,106 00	. . .	. . . . . .
Pennsbury township,	709,837 00	. . .	. . . . . .	2	1,583 67	1½	1,064 74	. . .	. . . . . .
Phœnixville borough,	2,265,840 00	2	4,531 68	5	11,329 20	. . .	. . . . . .	. . .	. . . . . .
Pikeland, East, township.	645,090 00	. . .	. . . . . .	2	1,749 20	2	1,473 35	. . .	. . . . . .
Pikeland, West, township	623,044 00	. . .	. . . . . .	2	1,438 09	2⅓	1,453 77	. . .	. . . . . .
Pocopson township,	539,350 00	. . .	. . . . . .	1½	1,013 86	1¾	943 86	. . .	. . . . . .
Sadsbury township,	732,908 00	. . .	. . . . . .	2½	2,019 58	4	3,128 37	. . .	. . . . . .
Schuylkill township,	667,519 00	. . .	. . . . . .	3	2,207 82	3⅜	2,252 87	. . .	. . . . . .
Spring City borough,	475,591 00	5	2,287 95	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . . .
Thornbury township,	260,696 00	. . .	. . . . . .	1⅔	491 68	4	1,042 78	. . .	. . . . . .
Tredyffrin township,	1,337,522 00	. . .	. . . . . .	2¼	3,490 42	1¼	1,671 90	. . .	. . . . . .
Uwchlan township,	521,680 00	. . .	. . . . . .	1¾	1,065 94	2	1,043 36	. . .	. . . . . .
Uwchlan, Upper, twp.,	672,510 00	. . .	. . . . . .	1½	1,222 76	2	1,345 02	. . .	. . . . . .
Valley township,	391,680 00	. . .	. . . . . .	3	1,260 40	4	1,578 72	. . .	. . . . . .
Vincent, East, township,	119,409 00	. . .	. . . . . .	1½	2,092 61	2	2,331 00	. . .	. . . . . .
Vincent, West, township,	956,790 00	. .	. . . . . .	1	1,249 79	3	2,627 44	. . .	. . . . . .
Wallace township,	552,017 00	. . .	. . . . . .	1½	1,200 94	3	1,727 02	. . .	. . . . . .
Warwick township,	691,923 00	. . .	. . . . . .	2¼	1,985 01	2¼	1,937 93	. . .	. . . . . .
Westtown township,	771,313 00	. . .	. . . . . .	1½	1,156 97	1¼	961 25	. . .	. . . . . .
Whiteland, East, twp.,	876,311 00	. . .	. . . . . .	2	2,033 62	2	1,752 62	. . .	. . . . . .
Whiteland, West, twp.,	670,685 00	. . .	. . . . . .	2	1,583 62	2¾	1,860 55	. . .	. . . . . .
Willistown township,	1,281,052 00	. . .	. . . . . .	3	4,797 80	2	2,860 08	. . .	. . . . . .
West Chester borough,	5,517,048 00	. .	*	2	12,749 09	. . .	. . . . . .	. . .	. . . . . .
Total,	50,829,566 88	. . .	$21,464 74	. . .	$142,819 59	. . .	$88,772 41	. . .	. . . . . .

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of three mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$28 70	$473 34	......	......	$1,500 00	......	......	......	117
......	279 24	1,413 76	......	......	1,500 00	......	......	......	99
......	153 10	3,152 54	......	......	2,000 00	......	......	......	215
......	356 12	2,389 04	$600 00	¾	5,000 00	......	......	......	297
......	172 10	1,563 08	......	......	11,000 00	......	......	......	232
......	306 64	1,662 04	624 48	......	5,000 00	......	......	......	242
......	157 90	1,811 50	......	......	4,000 00	......	......	......	249
......	22 90	687 70	......	......	2,000 00	......	......	......	66
......	142 37	2,111 52	369 41	1	3,000 00	......	......	......	272
......	145 61	1,839 15	1,941 92	......	10,000 00	......	......	......	257
......	562 09	4,538 12	10,000 00	......	13,000 00	$100,000 00	$47,000 00	......	582
......	215 60	2,013 28	......	......	4,000 00	......	......	......	350
......	116 55	898 59	......	......	1,500 00	......	......	......	161
......	202 32	1,977 88	......	......	9,000 00	160 24	......	......	347
......	247 70	1,807 39	10,000 00	......	15,000 00	2,000 00	......	......	357
......	132 65	1,174 33	......	......	3,000 00	......	......	......	204
......	33 84	1,178 64	......	......	2,500 00	......	......	......	222
......	135 00	2,438 73	......	......	8,000 00	......	......	......	292
......	85 60	1,797 64	1,150 00	......	6,950 00	......	......	......	249
......	113 40	1,669 10	500 00	1½	6,000 00	......	......	......	228
......	642 23	1,985 84	500 00	1	4,500 00	......	......	......	172
......	241 67	2,465 57	......	......	4,000 00	......	......	......	217
......	105 28	1,921 85	......	......	5,000 00	......	......	......	172
......	501 99	3,590 41	......	......	7,000 00	......	......	......	612
......	3 15	237 10	......	......	3,000 00	......	......	......	285
......	286 52	1,288 17	10,000 00	......	10,000 00	30,000 00	20,000 00	......	285
......	390 46	3,053 47	......	......	10,000 00	......	......	......	310
......	226 28	1,188 23	......	......	3,000 00	......	......	......	155
......	72 75	1,327 61	......	......	4,000 00	......	......	......	206
......	492 91	4,059 74	......	......	7,000 00	......	......	......	548
......	218 43	2,653 77	400 00	......	7,000 00	......	......	......	280
......	948 83	2,780 38	......	......	4,500 00	......	......	......	398
......	184 19	1,990 55	......	......	3,500 00	......	......	......	250
......	265 82	2,026 95	......	......	5,000 00	......	......	......	295
......	455 45	3,200 32	450 00	1½	10,000 00	......	......	......	467
......	124 45	1,668 97	......	......	3,200 00	......	......	......	201
......	86 95	1,831 99	......	......	3,650 00	......	......	......	180
......	161 75	2,101 94	......	......	7,000 00	......	......	......	342
......	48 30	908 24	......	......	15,000 00	......	......	......	251
......	281 61	2,330 50	......	......	10,000 00	......	......	......	340
......	40 70	1,888 66	......	......	8,000 00	......	......	......	290
......	105 25	1,944 31	......	......	12,000 00	......	......	......	303
......	70 75	983 56	......	......	4,000 00	......	......	......	202
......	81 70	1,231 90	......	......	5,600 00	......	......	......	173
......	459 99	2,129 52	......	......	8,000 00	......	......	......	164
$9,063 36	170 15	6,849 16	28,459 39	......	45,000 00	204,742 76	108,000 00	......	1,347
......	152 12	1,751 86	......	......	3,200 00	......	......	......	227
......	93 68	1,652 68	......	......	6,000 00	......	......	......	211
......	85 35	1,411 74	......	......	2,400 00	......	......	......	120
......	126 30	2,181 53	......	......	5,000 00	......	......	......	340
......	64 05	2,025 60	......	......	7,000 00	......	......	......	340
......	91 60	1,363 88	1,800 00	......	12,000 00	1,174 62	900 00	......	320
......	15 05	782 09	......	......	2,000 00	......	......	......	59
......	300 30	4,012 56	......	......	15,000 00	......	......	......	481
......	125 50	1,565 04	......	......	5,000 00	......	......	......	153
......	332 76	2,017 53	......	......	8,000 00	......	......	......	214
......	24 50	1,346 62	......	......	3,000 00	......	......	......	246
......	187 64	2,409 60	......	......	7,000 00	......	......	......	257
......	178 91	2,860 18	......	......	7,000 00	......	......	......	306
......	34 20	1,662 00	......	......	4,000 00	......	......	......	181
......	104 95	2,181 52	......	......	5,000 00	......	......	......	302
......	107 87	1,959 19	......	......	2,500 00	......	......	......	175
......	219 82	2,628 93	......	......	5,000 00	......	......	......	281
......	188 38	2,288 56	......	......	9,000 00	......	......	......	260
......	448 47	4,009 43	2,000 00	1¼	12,000 00	......	......	......	425
......	4,318 87	16,551 14	......	......	40,000 00	......	......	......	1,715
$9,063 36	$17,457 33	$151,472 61	$68,795 20	......	$483,000 00	$338,077 62	$175,900 00	......	19,859

CLARION

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Ashland township, . . .	$111,386 00	. . .	. . . . . .	7	$973 70	10	$1,113 86	. . .	. . . . .
Beaver township, ...	423,773 00	. . .	. . . . . .	5	2,853 86	10	4,237 73	. . .	. . . . .
Brady township, ...	34,000 00	. . .	. . . . . .	6	207 47	10	340 00	. . .	. . . . .
Clarion borough, ...	126,120 00	10	$1,261 20	12½	1,726 52	. . .	. . . . . .	6	$756 72
Clarion township, ...	136,515 00	. . .	. . . . . .	6	819 09	13	1,775 00	. . .	. . . . .
Callensburg borough, . .	26,085 00	4	104 34	12	313 02	. . .	. . . . . .	. . .	. . . . .
Curlisville borough, . . .	18,000 00	2	37 85	5	128 15	. . .	. . . . . .	. . .	. . . . .
Edenburg borough, . . .	72,871 00	5	364 35	10	1,120 00	. . .	. . . . . .	. . .	. . . . .
East Brady borough, . .	115,825 00	5	579 12	18	2,084 85	. . .	. . . . . .	9	1,042 42
Elk township, ...	178,557 00	. . .	. . . . . .	10	1,785 77	16	2,857 23	3	522 60
Farmington township, .	171,247 00	. . .	. . . . . .	10	2,087 47	10	1,712 47	5	856 00
Highland township, . . .	50,793 00	. . .	. . . . . .	13	711 86	10	507 93	7	372 66
Knox township, ...	31,734 00	. . .	. . . . . .	12	667 76	16	507 74	. . .	. . . . .
Licking township, ...	104,126 00	. . .	. . . . . .	12	1,496 51	8	833 00	. .	. . . . .
Limestone township, . .	185,000 00	. . .	. . . . . .	6	1,909 00	10	1,850 00	4	740 00
Madison township, . . .	146,117 50	. . .	. . . . . .	7	1,484 85	5	752 14	. . .	. . . . .
Monroe township, ...	136,000 00	. . .	. . . . . .	2½	502 00	5	680 00	2	272 00
Mill Creek township, . .	65,000 00	. . .	. . . . . .	10	851 00	10	650 00	. . .	. . . . .
New Bethlehem borough,	70,692 00	4	282 76	13	919 00	10	706 92	. . .	. . . . .
Paint township, ...	70,000 00	. . .	. . . . . .	9	742 00	15	1,050 00	. . .	. . . . .
Perry township, ...	235,309 00	. . .	. . . . . .	10	3,003 47	8	2,404 00	9	2,125 00
Piney township, ...	125,791 00	. . .	. . . . . .	6	1,602 69	6	1,383 70	8	1,006 32
Porter township, ...	199,751 00	. . .	. . . . . .	9	2,118 76	8	1,997 50	. . .	. . . . .
Redbank township, . . .	205,232 50	. . .	. . . . . .	8	1,641 85	8	1,641 85	5	1,026 16
Richland township, . . .	241,185 00	. . .	. . . . . .	12	2,894 22	8	1,929 48	. . .	. . . . .
Rimersburg borough, . .	35,000 00	5	165 00	10	350 00	. . .	. . . . . .	. . .	. . . . .
Strattonville borough, .	36,000 00	10	366 36	3	141 74	. . .	. . . . . .	. . .	. . . . .
St. Petersburg borough,	111,283 00	. . .	. . . . . .	13	1,797 68	. . .	. . . . . .	. . .	. . . . .
Salem township, ...	213,342 00	. . .	. . . . .	8	1,896 99	9	1,920 07	. . .	. . . . .
Toby township, ...	140,000 00	. . .	. . . . . .	10	1,493 28	10	1,345 00	6	840 00
Washington township, .	150,493 00	. . .	. . . . . .	10	1,818 34	13	2,051 77	4	616 48
Total, ...	$3,967,228 00	. .	$3,160 98	. . .	$42,142 90	. .	$34,247 39	. . .	$10,176 36

COUNTY.

Amount of *water* tax.	Amount of State tax.	Amount of county tax at the rate of nine mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$16 40	$1,002 58	......	......	$1,600 00	......	......	......	194
......	129 26	876 21	......	......	2,000 00	......	......	......	735
......	6 51	269 79	$500 00	2	1,500 00	......	......	......	54
......	115 89	1,135 08	289 65	......	5,000 00	$1,825 00	$2,681 74	......	260
......	48 96	1,229 98	......	4	1,850 00	......	......	......	311
......	17 70	231 46	......	......	800 00	......	......	......	75
......	7 19	173 07	......	......	800 00	......	......	......	48
......	179 17	1,253 54	......	......	1,000 00				
......	65 90	1,044 65	2,403 19	......	7,000 00	450 00	400 00	......	269
......	35 62	1,680 07	133 00	5	700 00	500 00	......	......	432
......	27 31	1,537 79	......	......	5,000 00	......	......	......	378
......	9 02	461 32	321 86	......	2,600 00	......	......	......	154
......	7 69	475 00	......	......	800 00	......	......	......	155
......	37 27	937 27	......	......	2,000 00	......	......	......	247
......	61 91	1.630 77	......	3	5,000 00	......	......	......	344
......	33 67	1,345 66	......	......	10,000 00	......	......	......	479
......	24 89	1,188 01	......	......	4,000 00	......	......	......	282
......	15 89	626 30	......	......	1,500 00	......	......	......	201
......	26 36	642 75	......	......	500 00	......	100 00	......	148
......	7 53	589 86	......	......	1,200 00	......	......	......	112
......	70 69	2,168 97	......	......	4,850 00	1,281 00	......	......	588
......	37 54	1,134 41	300 00	5	3,300 00	750 00	......	......	285
......	25 84	1,798 42	......	......	4,000 00	......	......	......	321
......	35 25	2,060 64	......	......	8,000 00	......	......	......	384
......	82 72	2,172 10	......	......	2,000 00	......	......	......	550
......	18 87	270 30	50 00	......	1,500 00	35 00	......	......	100
......	14 85	300 23	......	......	2,500 00	100 00	15 00	......	99
......	103 59	1,002 22	......	......	6,000 00	......	......	......	351
......	103 43	1,873 03	195 33	......	5,000 00	......	......	......	277
......	19 78	1,248 53	......	5	4,500 00	......	......	......	302
......	16 27	1,306 98	......	3	4,000 00	......	......	......	365
......	$1,402 97	$36,666 99	$4,193 03	......	$100,500 00	$4,941 00	$3,196 74	......	8,900

CLEARFIELD

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Burnside borough, ...	$37,510 00	. . .	*	7	$267 67	. . .	. . . .	. . .	. . . . .
Clearfield borough, . . .	392,363 00	3	$1,177 08	6	2,650 51	. . .	. . . .	2	$784 72
Curwensville borough, .	161.554 00	. . .	*	10	1,814 54	. . .	. . . .	. . .	. . . . .
Houtzdale borough, . . .	82,081 00	10	820 00	10	820 00	. . .	. . . .	10	820 00
Lumber City borough, .	42,888 00	5	238 69	10	513 51	. . .	. . . .	. . .	101 72
Newburg borough, † . . .	24,844 00	. . .	. . . .	. . .	. . . .	. . .	. . . .	. . .	. . . . .
New Washington boro',	35,423 00	3	108 08	3½	172 12	. . .	. . . .	. . .	. . . . .
Osceola borough, ...	122,370 00	5	603 62	17	2,087 02	. . .	. . . .	3	364 01
Wallaceton borough, . .	28,242 00	5	141 21	10	282 42	. . .	. . . .	. . .	. . . . .
Beccaria township, . . .	300,000 00	. . .	. . . .	5	1,500 00	7	$2,100 00	2	600 00
Bell township, ...	333,547 00	. .	. . . .	5	1,858 73	6	2,001 28	. . .	. . . . .
Bloom township, ...	70,000 00	. . .	. . . .	5	350 00	10	700 00	2	140 00
Boggs township, ...	117,989 00	. . .	. . . .	8	1,064 00	10	1,178 00	3	353 00
Bradford township, . . .	174,840 00	. . .	. . . .	5	1,097 94	8	1,398 72	3	524 52
Brady township, ...	534,098 00	. . .	. . . .	4	2,744 39	6	3,204 58	. . .	. . . . .
Burnside township, . . .	374,319 00	. . .	. . . .	4	1,836 28	6	2,245 91	. . .	. . . . .
Chest township, ...	263,782 00	. . .	. . . .	5	1,559 91	8	2,110 25	. . .	. . . . .
Covington township, . .	175,495 00	. . .	. . . .	3	699 48	10	1,754 95	. . .	. . . . .
Decatur township, ...	326.875 00	. . .	. . . .	2½	883 00	10	2,060 00	5	1,030 00
Ferguson township, . . .	109.756 00	. . .	. . . .	5	698 78	10	1,097 56	. . .	. . . . .
Girard township, ...	79,827 00	. . .	. . . .	2	279 89	6	468 96	3	156 32
Goshen township, ...	211,201 00	. . .	. . . .	. . .	*	. . .	. . . .	. . .	. . . . .
Graham township, ...	99,739 00	. . .	. . . .	2	290 00	10	792 00	. .	. . . . .
Greenwood township, . .	88,624 00	. . .	. . . .	5	594 45	10	971 80	. . .	. . . . .
Gulich township, ...	128,425 00	. . .	. . . .	11	1,625 67	10	1,284 25	. . .	. . . . .
Huston township, ...	606,296 00	. . .	. . . .	3	2,096 89	5	3,031 48	. . .	. . . . .
Jordan township, ...	132,050 00	. . .	. . . .	3½	611 17	10	1,320 50	. . .	. . . . .
Karthaus township, . .	100,000 00	. . .	. . . .	5	625 00	5	500 00	4	400 00
Knox township, ...	132,732 00	. . .	. . . .	3	398 19	8	1,056 00	3	398 19
Lawrence township, . . .	308,617 00	. . .	. . . .	3	1,234 46	1	308 67	. . .	. . . . .
Morris township, ...	238,055 00	. . .	. . . .	3½	1,136 16	4	952 00	2½	595 00
Penn township, ...	109,475 00	. . .	. . . .	1	109 47	10	1,094 75	. . .	. . . . .
Pike township, ...	199,343 00	. . .	. . . .	6	1,490 06	8	1,594 74	. . .	. . . . .
Union township, ...	56,215 00	. . .	. . . .	7	394 94	10	558 58	3	171 26
Woodward township, . .	371,323 00	. . .	. . . .	6	2,829 94	6	2,227 94	. . .	. . . . .
Pine township, ...	212,357 00	. . .	*	. . .	*	. . .	. . . .	. . .	. . . . .
Total, ...	$6,782,255 00	. . .	$3,088 68	. . .	$36,616 59	. . .	$36,013 92	. . .	$6,438 74

* Not reported. † New district.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of five mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$19 05	$187 55	......	......	$500 00	......	......	.....	51
......	121 59	1,945 92	$13,916 04	......	30,000 00	$5,400 00	$2,500 00	.....	409
......	46 52	807 77	......	......	1,500 00	......	......	.....	199
......	9 57	404 45	989 00	......	1,800 00	807 02	100 00	.....	173
......	20 26	247 27	......	......	1,500 00	......	......	.....	73
......	14 20	124 22	......	......	......	......	......	.....	59
......	22 93	160 86	36 62	......	500 00	......	......	.....	54
......	45 70	634 33	4,500 00	......	5,500 00	......	100 00	.....	238
......	10 95	124 06	251 53	......	300 00	125 00	......	.....	67
......	87 26	1,645 04	......	......	4,500 00	700 00	......	.....	330
......	52 51	1,667 74	......	......	4,500 00	......	......	.....	191
......	19 74	404 49	......	......	180 00	......	......	.....	94
......	44 73	730 43	......	......	2,400 00	500 00	......	.....	198
......	51 59	974 96	......	......	5.000 00	......	......	.....	343
......	108 26	2,670 49	......	......	3.000 00	......	......	.....	608
......	91 24	1,871 59	......	......	2,500 00	......	......	.....	339
......	32 41	1,318 91	......	......	1,500 00	......	......	.....	241
......	34 89	682 07	......	......	4,000 00	......	......	.....	173
......	54 99	1,825 34	......	......	9,000 00	......	......	.....	440
......	33 34	548 78	......	......	1,000 00	......	......	.....	150
......	29 28	353 96	......	......	1,000 00	......	......	.....	123
......	25 11	1,056 00	......	......	......	......	......	.....	98
......	26 57	498 69	......	......	1,025 00	......	......	.....	138
......	21 86	443 12	250 00	2½	1,074 00	......	......	.....	96
......	33 38	642 13	......	......	1,200 00	......	......	.....	213
......	51 84	3,031 48	......	......	1,800 00	......	......	.....	278
......	35 69	660 25	......	......	2,000 00	......	......	.....	149
......	34 78	517 83	......	......	2,500 00	......	......	.....	132
......	37 31	660 19	......	......	350 00	......	......	.....	207
......	77 32	2,547 90	......	......	7,000 00	......	......	.....	465
......	70 00	2,024 51	......	......	5,000 00	......	......	.....	395
......	32 25	836 86	......	......	2.000 00	......	......	.....	137
......	68 26	996 71	......	......	2,800 00	......	......	.....	294
......	39 82	919 40	......	3	3,500 00	......	......	.....	140
......	38 45	1,856 62	......	......	2,500 00	......	......	.....	602
......	....	1,061 79							
.....	$1,549 83	$37,083 71	$19,943 19	......	$112,929 00	$7,532 02	$2,700 00	.....	7,877

CLINTON

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Allison township, ...	$82,893 00	. . .	. . . .	. . .	*	. . .	. . . . . .	. . .	. . . . .
Bald Eagle, ...	146,880 00	. . .	. . . .	7	$1,247.06	9	1,135 47	6	$881 30
Beech Creek, ...	106,466 00	. .	. . . . . .	7	1,064 20	10	1,267 66	. . .	. . . . .
Beech Creek borough, . .	77,536 00	. . .	. . . .	9	837 82	. . .	. . . . . .	. . .	. . . . .
Chapman, ...	67,671 00	. . .	. . . .	6	810 78	7	486 29	. . .	. . . .
Colebrook, ...	40,871 00	. . .	. . . .	10	501 71	10	408 71	. . .	. . . . .
Crawford, ...	67,500 00	. . .	. . . .	6½	546 79	10	679 68	2½	172 64
Dunnstable, ...	111,275 00	. . .	. . . .	8	880 00	16	1,780 00	8	1,097 00
Gallagher, ...	19,174 00	. . .	. . . .	18	257 08	10	199 48	5	99 74
Greene, ...	197,364 00	. . .	. . . .	6	1,445 78	7	1,347 87	3	573 61
Grugan, ...	47,243 00	. . .	. . . .	5	236 21	5	236 21	3	131 73
Keating, East, ...	24,118 00	. . .	. . . .	10	298 10	10	241 18	. . .	. . . . .
Keating, West, ...	*	. . .	. . . .	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Lamar, ...	371,522 00	. . .	. . . .	5	2,253 61	4	1,486 08	. . .	. . . . .
Leidy, ...	116,520 00	. . .	. . . .	5	472 44	10	1,165 20	2⅓	291 3
Logan, ...	124 154 00	. . .	. . . .	4	692 55	8	1,026 80	1½	194 79
Logansville borough, . .	44,869 00	. . .	. . . .	10	586 69	. .	. . . . . .	. . .	. . . . .
Lock Haven, ...	724,268 00	. .	*	12	10,465 22	. .	. . . . . .	. . .	. . . . .
Mill Hall borough, ...	31,474 00	6	208 61	10	414 31	. . .	. . . . . .	. . .	. . . . .
Noyes, ...	42,000 00	. . .	. . . .	19	895 00	10	415 46	5	208 96
Pine Creek, ...	178,700 00	. . .	. . . .	6	1,345 20	8	1,429 60	. . .	. . . . .
Porter, ...	325,763 00	. . .	. . . .	4	1,450 00	4	1,303 05	6	1,954 57
Renova borough, ...	325,000 00	6	1,956 00	15	5,200 00	. . .	. . . . . .	3	980 00
Wayne, ...	80,133 00	. . .	. . . .	10	1,034 33	10	801 33	. . .	. . . . .
Woodward, ...	105,667 00	. . .	. . . .	9	951 00	8	845 33	5	528 33
Total, ...	$3,459,061 00	. . .	$2,164 61	. . .	$33,885 96	. . .	$16,471 40	. .	$7,133 97

* No report.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of — mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$9 00	$828 93	......	......	......	......	......	.....	274
......	......	1,517 47	......	......	$2,500 00	......	......	.....	259
......	8 55	1,250 31	......	......	4,500 00	......	......	.....	224
......	12 50	775 36	......	......	1,500 00	......	......	.....	140
......	12 75	673 09	......	4	3,000 00	......	......	.....	183
......	2 70	408 71	......	......	1,200 00	......	......	.....	93
......	7 78	679 70	......	......	800 00	......	......	.....	156
......	9 50	1,369 75	......	......	4,500 00	......	......	.....	258
......	1 95	200 24	......	5	1,500 00	$175 00	......	.....	90
......	16 05	1,876 58	......	4	3,363 00	100 00	......	$100 00	322
......	2 00	197 67	......	......	900 00	243 53	......	.....	63
......	......	241 18	......	......	1,200 00	......	......	.....	57
......	......	138 34	......	......	......	......	......	.....	75
......	36 67	3,715 22	......	......	4,500 00	......	......	.....	396
......	3 75	381 08	......	......	3,500 00	......	......	.....	156
......	12 05	1,258 95	......	......	2,500 00	......	......	.....	221
......	14 35	448 69	......	......	3,000 00	......	......	.....	138
......	139 35	7,242 68	......	......	12,000 00	......	......	.....	1.174
......	1 40	352 23	......	......	3,000 00	103 00	......	.....	146
......	4 25	412 91	......	10	3,000 00	......	......	.....	113
......	18 00	1,787 00	......	......	3,000 00	......	......	.....	273
......	44 15	3,268 90	......	2	3,500 00	......	......	.....	284
$3,256 96	62 30	3,252 74	14,000 00	......	28,000 00	62,000 00	63,767 00	.....	772
......	18 35	801 33	......	......	1,800 00	......	......	.....	233
......	2 89	1,056 67	......	......	4,750 00	350 00	......	.....	278
$3,256 96	$452 49	$34,135 73	$14,000 00	......	$97,513 00	$62,971 53	$63,767 00	$100 00	6,978

COLUMBIA

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Beaver township	$123,685	. . .	. . . . . .	5	$829 27	10	$1,222 50	5	$516 62
Benton township, ...	176,690	. . .	. . . . . .	6	1,352 14	6	1,060 14	. . .	. . . . . .
Berwick borough, ...	194,990	10	2,403 40	7	1,753 85	. . .	. . . . . .	9	210 55
Bloomsburg borough, . .	728,880	10	7,556 79	10	8,423 15	. . .	. . . . . .	3	2,129 67
Briar Creek township, . .	229,980	. . .	. . . . . .	5	1,388 90	8	1,839 84	. . .	. . . . . .
Catawissa township, . .	290,560	. . .	. . . . . .	3	1,281 00	4	1,350 00	4	850 00
Centralia borough, . . .	117,595	13	1,796 21	13	1,796 21	. . .	. . . . . .	5	690 85
Centre township, ...	335,325	. . .	. . . . . .	4	1,579 79	4	1,329 79	3.8	1,202 65
Conyngham township, .	510,360	. . .	. . . . . .	13	6,989 88	5	2,692 72	10	5,027 30
Fishing Creek township,	205,100	. . .	. . . . . .	6	1,324 92	8½	1,876 97	4	883 28
Franklin township, . . .	105,855	. . .	. . . . . .	5½	667 58	9	1,029 16	1½	162 23
Greenwood township, . .	236,749	. . .	. . . . . .	7	1,957 24	8	1,893 99	. . .	. . . . . .
Hemlock township, . . .	200,570	. . .	. . . . . .	5	1,643 99	5	1,002 83	4	802 28
Jackson township, ...	57,925	. . .	. . . . . .	6	506 65	10	579 25	. . .	. . . . . .
Locust township, ...	248,173	. . .	. . . . . .	8	2,446 38	8	1,985 38	. . .	. . . . . .
Madison township, . . .	208,490	. . .	. . . . . .	5	1,334 45	5	1,042 45	. . .	. . . . . .
Main township, ...	133,518	. . .	. . . . . .	8½	1,267 90	10	1,335 18	. . .	. . . . . .
Mifflin township, ...	203,759	. . .	. . . . . .	6½	1,593 43	8	1,630 07	. . .	. . . . . .
Montour township, . . .	177,450	. . .	. . . . . .	4	834 42	5⅓	1,134 54	4	661 58
Mt. Pleasant township, .	116,927	. . .	. . . . . .	6	872 79	9	1,000 60	4	459 30
Orange township, ...	159,040	. . .	. . . . . .	4½	963 64	5½	965 19	5	796 28
Pine township, ...	75,680	. . .	. . . . . .	8	796 52	10	817 35	2	151 36
Roaring Creek township,	91,770	. . .	. . . . . .	4	464 56	9	725 17	6	483 45
Scott township, ...	274,110	. . .	. . . . . .	4½	1,271 27	4	1,200 00	3	726 69
Sugar Loaf township, . .	73,725	. . .	. . . . . .	7	516 00	10	737 25	4	294 90
Total, ...	$5,276,906	. . .	$11,756 40	. . .	$43,855 93	. . .	$28,450 37	. . .	$16,048 99

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of seven mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$8 00	$1,001 19	. . . . . .	. . . . . .	$4,500	. . . . . .	. . . . . .	. . . . .	335
. . . . . .	7 00	1,236 33	. . . . . .	. . . . . .	3,500	. . . . . .	. . . . . .	. . . . .	292
. . . . . .	51 10	1,676 48	$1,000 00	. . . . . .	13,500	. . . . . .	$600 00	. . . . .	378
. . . . . .	175 15	5,805 75	8,217 53	. . . . . .	40,000	$14,900 00	2,000 00	. . . . .	886
. . . . . .	16 30	1,609 71	. . . . . .	. . . . . .	4,000	. . . . . .	. . . . . .	. . . . .	239
. . . . . .	70 00	2,461 01	. . . . . .	. . . . . .	4,200	. . . . . .	. . . . . .	. . . . .	493
. . . . . .	9 50	1,018 97	985 40	. . . . . .	15,000	7,856 35	. . . . . .	. . . . .	353
. . . . . .	34 25	2,328 35	. . . . . .	. . . . . .	2,350	. . . . . .	. . . . . .	. . . . .	309
. . . . . .	25	3,768 51	2,943 67	. . . . . .	3,000	40,000 00	. . . . . .	. . . . .	387
. . . . . .	9 75	1,583 53	1,171 97	. . . . . .	2,700	. . . . .	441 90	. . . . .	368
. . . . . .	15 15	780 35	. . . . . .	. . . . . .	2,000	. . . . . .	. . . . . .	. . . . .	152
. . . . . .	18 34	1,656 61	. . . . . .	. . . . . .	4,400	. . . . . .	. . . . . .	. . . . .	370
. . . . . .	7 50	1,422 54	. . . . . .	2	7,000	. . . . . .	. . . . . .	. . . . .	244
. . . . . .	4 75	405 04	. . . . . .	. . . . . .	1,600	. . . . . .	. . . . . .	. . . . .	160
. . . . . .	11 85	1,736 59	. . . . . .	. . . . . .	5,200	. . . . . .	. . . . . .	. . . . .	461
. . . . . .	25 35	1,459 05	. . . . . .	. . . . . .	3,500	. . . . . .	. . . . . .	. . . . .	292
. . . . . .	23 70	934 57	. . . . . .	. . . . . .	2,000	. . . . . .	. . . . . .	. . . . .	133
. . . . . .	23 60	1,435 56	. . . . . .	. . . . . .	2,700	. . . . . .	. . . . . .	. . . . .	269
. . . . . .	11 70	1,242 08	. . . . . .	. . . . . .	4,500	. . . . . .	. . . . . .	. . . . .	173
. . . . . .	10 35	856 71	. . . . . .	. . . . . .	3,000	. . . . . .	. . . . . .	. . . . .	179
. . . . . .	28 25	1,238 15	. . . . . .	. . . . . .	2,000	. . . . . .	. . . . . .	. . . . .	238
. . . . . .	4 25	571 75	. . . . . .	. . . . . .	1,000	. . . . . .	500 00	. . . . .	207
. . . . . .	25 20	661 15	. . . . . .	. . . . . .	1,500	. . . . . .	. . . . . .	. . . . .	131
. . . . . .	31 45	1,918 57	. . . . . .	. . . . . .	5,000	. . . . . .	. . . . . .	. . . . .	371
. . . . . .	. . . . . .	549 93	500 00	. . . . . .	1,050	. . . . . .	. . . . . .	. . . . .	200
. . . . . .	$623 24	$39,358 48	$14,818 57	. . . . . .	$139,200 00	$62,756 35	$3,541 90	. . . . .	7,620

CRAWFORD

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Athens township, ...	$279,253 00	. . .	. . . . .	2½	$1,076 54	5	$1,373 86	. . .	. . . . .
Beaver township, ...	394,720 00	. . .	. . . . . .	4	1,964 88	4	1,578 88	. . .	. . . . .
Bloomfield township, . .	457,080 00	. . .	. . . . . .	3	1,353 10	6¼	2,856 75	. . .	. . . . .
Blooming Valley boro', .	64,658 00	4	$258 63	5	369 52	. . .	. . . . . .	. .	. . . . .
Cambridge township, . .	264,788 00	. . .	. . . . . .	1½	629 18	5	1,323 94	. . .	. . . . .
Cambridge borough, . .	118,402 00	. . .	*	10	1,184 02	. . .	. . . . . .	. . .	. . . . .
Conneaut township, . . .	598,738 00	. . .	. . . . . .	2¼	1,838 15	4	2,394 95	. . .	. . . . .
Cochranton borough, . .	132,745 00	5	669 36	6	900 00	. . .	. . . . . .	. . .	. . . . .
Centreville borough, . .	59,684 00	. . .	*	6	469 10	. . .	. . . . . .	. . .	. . . . .
Conneautville borough,	258,591 00	. .	*	8	2,391 73	. . .	. . . . . .	. . .	. . . . .
Cussewago township, . .	567,875 00	. . .	. . . . . .	1¾	1,200 75	5	548 88	1	$564 31
Evansburg borough, . .	29,505 00	. . .	*	4	206 00	. . .	. . . . . .	. . .	. . . . .
Fallowfield, East, twp, .	300,000 00	. . .	. . . . . .	2	458 00	1	300 00	7½	2,100 00
Fallowfield. West, twp,	185,370 00	. . .	. . . . . .	2½	645 42	5	926 85	. . .	. . . . .
Fairfield township, . . .	225,712 00	. . .	. . . . . .	2½	844 27	2	451 42	. . .	. . . . .
Fairfield, East, twp, . .	194,141 00	. . .	. . . . . .	1	194 14	2	388 28	. . .	. . . . .
Greenwood township, .	478,326 00	. . .	. . . . .	4	1,913 30	5	2,391 63	. . .	. . . . .
Geneva borough, ...	26,867 00	4½	159 34	10	354 97	. . .	. . . . . .	. . .	. . . . .
Hartstown borough, . .	23,208 00	7½	221 78	6	186 26	. . .	. . . . . .	. . .	. . . . .
Hayfield township, . . .	590,480 00	. . .	. . . . . .	2½	5,038 20	5	2,952 40	. . .	. . . . .
Linesville borough, . . .	148,000 00	3¼	584 57	10	1,673 07	. . .	. . . . . .	. . .	. . . . .
Mead township, ...	793,143 00	. . .	. . . . . .	2	2,420 29	4	3,172 57	. . .	. . . . .
Meadville, ...	2,157,429 00	15	30,903 88	11½	23,444 52	. . .	. . . . . .	. . .	. . . . .
Oil Creek township, . . .	370,416 00	. . .	. . . . . .	6	2,653 46	2	740 00	. . .	. . . . .
Oil Creek borough, ...	82,140 00	2	159 27	5	410 00	. . .	. . . . . .	. . .	. . . . .
Pine township, ...	115,741 00	. . .	. . . . . .	3½	413 31	6½	738 75	. . .	. . . . .
Randolph township, . . .	530,206 00	. . .	. . . . . .	2	1,583 41	4⅛	2,385 94	. . .	. . . . .
Riceville borough, ...	55,200 00	2½	156 38	4	335 08	4	. . . . . .	. . .	. . . . .
Rockdale township, . . .	416,918 00	. . .	. . . . . .	3	1,366 66	7	2,918 47	. . .	. . . . .
Richmond township, . .	476,809 00	. . .	. . . . . .	3	1,430 43	1½	715 21	. . .	. . . . .
Rome township, ...	405,974 00	. . .	. . . . . .	2	900 00	7½	3,044 80	. . .	. . . . .
Shenango, North, twp, .	385,523 00	. . .	. . . . . .	1	662 52	4	1,542 09	. . .	. . . . .
Shenango, South, twp,	462,324 00	. . .	. . . . . .	2½	1,190 36	3	1,386 97	. . .	. . . . .
Shenango, West, twp, . .	139,396 00	. . .	. . . . . .	1½	310 50	3	418 18	. . .	. . . . .
Sparta township, ...	344,889 00	. . .	. . . . . .	2½	1,000 00	3	1,000 00	. . .	. . . . .
Spartansburg borough, .	107,566 00	. . .	*	9	1,138 09	. . .	. . . . . .	. . .	. . . . .
Sadsbury township, . . .	311,246 00	. . .	. . . . . .	3	1,109 74	1	311 25	. .	. . . . .
Saegertown borough, . .	128,841 00	3	383 08	10	1,738 86	. . .	. . . . . .	. . .	. . . . .
Spring township, ...	644,252 00	. . .	. . . . . .	2½	2,010 56	5	3,221 25	. . .	. . . . .
Spring borough, ...	87,962 00	2	160 00	8	703 69	. . .	. . . . . .	. . .	. . . . .
Steuben township, ...	252,697 00	. . .	. . . . .	2	672 87	6	1,516 18	. . .	. . . . .
Summit township, ...	415,811 00	. . .	. . . . . .	2	831 62	5½	2,286 96	. . .	. . . . .
Summerhill township, . .	398,596 00	. . .	. . . . . .	2½	996 49	3½	1,395 09	. . .	. . . . .
Troy township, ...	284,348 00	. . .	. . . . . .	5	2,098 25	11½	3,310 20	. . .	. . . . .
Townville borough, . . .	62,955 00	. . .	*	4	369 82	. . .	. . . . . .	. . .	. . . . .
Titusville, ...	1,485,448 00	55	81,721 00	17½	27,500 00	. . .	. . . . . .	. . .	. . . . .
Union township, ...	224,405 00	. . .	. . . . . .	3	607 22	3½	785 41	. . .	. . . . .
Vallonia borough, ...	59,500 00	5	314 00	8	515 00	. . .	. . . . . .	. . .	. . . . .
Vernon township, ...	536,650 00	. . .	. . . . . .	2	1,626 30	4	2,146 60	. . .	. . . . .
Venango township, . . .	272,083 00	. . .	. . . . . .	1½	575 32	10	272 08	. . .	. . . . .
Venango borough, ...	68,146 00	. . .	*	2½	277 36	. . .	. . . . . .	. . .	. . . . .
Wayne township, ...	340,367 00	. . .	. . . . . .	3	1.452 10	4	1,361 46	. . .	. . . . .
Woodcock township, . .	511,032 00	. . .	. . . . . .	2	1,406 68	6	3,426 48	. . .	. . . . .
Woodcock borough, . . .	60,034 00	3½	210 11	5	300 17	. . .	. . . . .	. . .	. . . . .
Total, ...	18,446,190 00	. . .	$115,901 43	. . .	$105,938 28	. . .	$55,583 68	. . .	$2,664 31

* No report,

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of seven and one quarter mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
	$23 60				$3,630 00	$100 00			400
	14 24				3,500 00				386
	21 90				2,750 00	76 50			500
	16 32				2,000 00	17 50			81
	6 90				2,800 00				232
	23 97				1,200 00				236
	12 17				8,000 00				490
	14 92				1,000 00	400 00	$1,000 00		186
	9 64				1,000 00				111
	25 38				3,000 00				323
	8 88				6,000 00				470
	3 50				500 00				88
	17 62				2,000 00				360
	44 10				1,600 00				182
	30 47				2,800 00				280
	7 65				2,000 00				182
	28 80				4,500 00				425
	10 17				500 00				116
	6 46				150 00				66
	48 95				7,000 00				562
	32 91			5	800 00		650 00		190
	56 30				6,400 00				834
	746 19		$35,000 00		100,000 00	70,500 00	61,329 83		2,089
					7,000 00				537
	4 75				2,500 00		250 00		137
					1,200 00				150
	31 89				8,000 00				523
					2,500 00				137
	33 37				7,000 00				444
	45 78				4,000 00				443
					3,000 00				434
	5 90				2,400 00				277
					4,000 00				293
	4 00				200 00				110
	12 75				2,000 00				443
	4 90				1,500 00				170
	11 55				4,200 00				297
	32 57		4,335 40		7,000 00				185
	74 12				4,800 00				562
	31 92				600 00				150
	6 63				4,000 00				309
	9 46			⅛	6,500 00				329
	28 84				3,000 00				409
	90				4,000 00				365
	18 87				1,000 00				118
	210 55		52,000 00		70,000 00	353,380 26	91,257 40		2,746
	1 35				3,000 00				169
	1 15				850 00				140
	1 60				4,000 00				553
	4 80				1,000 00				192
	14 30				1,000 00				107
	6 10				4,000 00				431
	59 05			1	6,000 00				480
	28 10				2,500 00	68 00	525 00		78
	$2,010 13	$137,296 28	$91,335 40		$335,880 00	$424,542 26	$150,012 23		20,491

CUMBERLAND

	Whole amount of taxable property.	Rate of city or borough tax.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax.	Whole amount of poor tax.
Carlisle, ...	$1,077,948 00	. . .	*	10	$12,552 48	. . .	. . . . . .	. . .	. . . .
Cooke township, ...	96,695 00	. . .	. . . .	3	317 52	6	$580 17	. . .	. . . .
Dickinson township, . .	638,770 00	. . .	. . . .	4⅓	3,394 46	4	2,555 08	. . .	. . . .
East Pennsboro' twp., .	556,304 00	. . .	. . . .	3	2,235 78	2½	1,556 24	. . .	. . . .
Frankford township, . .	342,754 00	. . .	. . . .	7½	3,090 66	5	1,713 77	. . .	. . . .
Hampden township, . . .	548,487 00	. . .	. . . .	2	2,322 77	1⅓	721 77	. . .	. . . .
Hopewell township, . . .	198,892 00	. . .	. . . .	5	1,230 11	5	1,003 74	. . .	. . . .
Lower Allen township, .	478,985 00	. . .	. . . .	3	1,748 05	3	1,436 95	. . .	. . . .
Mechanicsburg, ...	536,250 00	10	$5,362 50	9	4,826 25	. . .	. . . . . .	. . .	. . . .
Middlesex township, . .	489,876 00	. . .	. . . .	4	2,075 96	3	1,823 28	. . .	. . . .
Mifflin township, ...	332,588 00	. . .	. . . .	4	1,330 35	5	1,580 34	. . .	. . . .
Monroe township, ...	933,022 00	. . .	. . . .	3	3,399 07	4	3,732 08	. . .	. . . .
Mt. Holly borough, . . .	182,090 00	4	728 36	10	2,300 00	. . .	. . . . . .	. . .	. . . .
Newburg borough, . . .	46,350 00	4	214 40	7	419 10	. . .	. . . . . .	. . .	. . . .
Newton borough, ...	697,000 00	. . .	. . . .	3¼	2,535 75	4	2,780 67	. . .	. . . .
Newville borough, ...	312,071 00	. . .	*	8	3,096 57	. . .	. . . . . .	. . .	. . . .
New Cumberland bor., .	102,422 00	5	512 11	10	1,194 34	. . .	. . . . . .	. . .	. . . .
North Middleton twp., .	430,637 00	. . .	. . . .	2 1-9	1,173 00	4⅛	2,206 10	. . .	. . . .
Penn township, ...	764,817 00	. . .	. . . .	3	2,294 50	3¼	1,786 96	. . .	. . . .
Silver Spring township, .	973,194 00	. . .	. . . .	3½	4,066 17	4	3,892 77	. . .	. . . .
South Middleton twp., .	1,133,897 50	. . .	. . . .	4	4,535 59	4	4,365 14	. . .	. . . .
Southampton township, .	726,628 00	. . .	. . . .	2¾	2,498 93	2	1,452 50	. . .	. . . .
Shiremanstown borough,	84,975 00	2½	185 13	7½	750 00	. . .	. . . . . .	. . .	. . . .
Shippensburg borough, .	296,000 00	5	1,480 00	18	5,574 72	. .	. . . . . .	. . .	. . . .
Upper Allen township, .	605,521 00	. . .	. . . .	3½	3,263 22	2¼	1,832 00	. . .	. . . .
West Pennsboro' twp., .	1,040,269 00	. . .	. . . .	4	4,801 08	4	4,161 07	. . .	. . . .
Shippensburg township,	168,890 00	. . .	. . . . . .	3½	591 04	4½	760 00	. . .	. . . .
Total, ...	$13,795,332 50	. . .	$8,482 50	. . .	$77,618 37	. . .	$39,940 63	. . .	. . . .

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of five mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
.....	$762 90	$5,389 74	.....	.....	$30,000	.....	.....	.....	1,773
.....	2 80	483 33	.....	.....	1,000	.....	.....	.....	53
.....	152 38	3,193 85	.....	.....	11,000	.....	.....	.....	520
.....	169 23	3,086 29	$2,000 00	2½	15,000	.....	.....	.....	750
.....	113 30	1,713 77	.....	.....	8,000	.....	.....	.....	383
.....	222 90	2,607 23	.....	2	3,250	.....	.....	.....	309
.....	47 70	1,008 85	.....	.....	1,200	.....	.....	.....	320
.....	77 80	2,394 93	.....	.....	6,000	.....	.....	.....	312
.....	188 34	2,658 30	.....	.....	7,500	$28,000	$6,000	.....	923
.....	145 62	2,784 42	300 00	.....	12,000	.....	.....	.....	390
.....	132 18	1,620 33	.....	.....	4,000	.....	.....	.....	465
.....	434 74	4,665 11	.....	.....	10,000	.....	.....	.....	600
.....	39 99	952 01	200 00	.....	6,400	.....	.....	.....	348
.....	52 27	271 75	619 82	.....	3,000	.....	.....	.....	140
.....	.....	.....	.....	1¼	10,000	.....	.....	.....	525
.....	203 29	1,560 36	.....	.....	8,000	.....	.....	.....	600
.....	82 58	601 83	215 00	.....	3,200	.....	.....	.....	188
.....	144 18	1,969 29	.....	.....	4,000	.....	.....	.....	340
.....	163 61	2,714 04	.....	.....	8,000	.....	.....	.....	485
.....	249 17	4,865 97	.....	.....	12,000	.....	.....	.....	660
.....	308 30	5,728 55	.....	.....	20,000	.....	.....	.....	830
.....	152 66	3,688 28	.....	3	14,000	.....	.....	.....	530
.....	87 60	424 88	250 00	3	2,500	.....	.....	.....	160
.....	186 82	1,454 70	11,000 00	9	25,000	2,447	1,700	.....	680
.....	318 56	3,027 61	.....	.....	7,500	.....	.....	.....	445
.....	441 10	5,201 35	.....	.....	10,000	.....	.....	.....	640
.....	172 67	752 97	.....	.....	4,000	.....	.....	.....	180
.....	$5,272 83	$68,396 50	$14,584 82	.....	$246,550	$30,447	$7,700	.....	13,549

DAUPHIN

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Harrisburg,	*	. . .	. . . .	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Susquehanna township,	$846,163 00	. . .	. . . .	4	$3,735 79	2⅛	$2,211 51	. . .	. . . . .
Swatara township,	1,025,690 00	. . .	. . . .	4¼	5,082 76	2	2,051 38	. . .	. . . . .
Lower Swatara twp.,	538,556 00	. . .	. . . .	3¼	2,631 31	4	2,134 22	. . .	. . . . .
Middletown,	492,302 00	6⅛	3,354 58	13	6,398 46	. . .	. . . . . .	. . .	. . . . .
Londonderry township,	677,557 50	. . .	. . . .	4	2,710 23	3	2,198 88	. . .	. . . . .
Conewago township,	347,298 00	. . .	. . . .	2	873 68	. . .	2,081 95	. . .	. . . . .
Derry township,	994,248 00	. . .	. . . .	2⅛	2,987 62	2	1,988 49	. . .	. . . . .
South Hanover twp.,	347,593 00	. . .	. . . .	5	1,944 73	1	1,390 37	. . .	. . . . .
East Hanover township,	470,896 00	. . .	. . . .	3	1,823 69	4	1,883 58	. . .	. . . . .
West Hanover township,	400,509 00	. . .	. . . .	2⅛	1,288 27	4	1,602 03	. . .	. . . . .
Lower Paxton twp.,	626,165 00	. . .	. . . .	3⅓	4,710 70	6	3,946 17	. . .	. . . . .
Middle Paxton twp.,	266,556 00	. . .	. . . .	4	1,316 31	6	1,562 51	. . .	. . . . .
Dauphin borough,	114,380 00	. . .	*	6	894 28	. . .	. . . . . .	. . .	. . . . .
Halifax township,	339,200 00	. . .	. . . .	3	1,017 60	4	1,356 80	. . .	. . . . .
Jefferson township,	168,000 00	. . .	. . . .	2	390 71	. . .	1,900 00	. . .	. . . . .
Reed township,	91,933 00	. . .	. . . .	6	642 60	6	551 59	. . .	. . . . .
Rush township,	149,199 00	. . .	. . . .	5	793 00	5	745 99	. . .	. . . . .
Millersburg borough,	204,088 00	5	1,146 56	8	1,875 74	. . .	. . . . . .	. . .	. . . . .
Upper Paxton township,	474,911 00	. . .	. . . .	2½	1,288 70	1¾	1,176 30	. . .	. . . . .
Washington township,	410,000 00	. . .	. . . .	5	2,000 00	4¾	1,950 00	. . .	. . . . .
Mifflin township,	265,314 00	. . .	. . . .	3	820 67	2.70	694 07	. . .	. . . . .
Halifax borough,	63,317 00	5	342 12	12	718 95	. . .	. . . . . .	. . .	. . . . .
Williams township,	336,490 00	. . .	. . . .	10	4,065 90	4	1,345 96	. . .	. . . . .
Wiconisco township,	263,648 00	. . .	. . . .	14	3,690 00	8	2,109 00	. . .	. . . . .
Gratz borough,	94,535 00	. . .	*	3	379 60	. . .	. . . . . .	. . .	. . . . .
Lykens township,	346,246 00	. . .	. . . .	3	1,328 74	4	1,384 98	. . .	. . . . .
Uniontown borough,	73,554 00	. .	*	13	1,069 20	. . .	. . . . . .	. . .	. . . . .
Jackson township,	177,430 00	. . .	. . . .	4	861 20	4½	968 85	. . .	. . . . .
Hummelstown borough,	217,762 00	. . .	*	9	2,280 86	. . .	. . . . . .	. . .	. . . . .
Lykens borough,	244,418 00	5	1,224 98	15	3,686 72	. . .	. . . . . .	. . .	. . . . .
Berrysburg borough,	65,138 00	. . .	*	6	543 83	. . .	. . . . . .	. . .	. . . . .
Total,	11,133,096 50	. . .	$6,068 24	. . .	$63,851 85	. . .	$37,235 63	. . .	. . . . .

* No report.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of seven and one half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City, borough, or township debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$338 43	$57,366 46	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . .	6,595
. . . . . .	160 26	8,682 51	$300 00	. . . . . .	$9,000 00	. . . . . .	. . . . . .	. . . . .	466
. . . . . .	90 50	10,256 90	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	980
. . . . . .	227 65	5,385 56	. . . . . .	. . . . . .	6,500 00	. . . . . .	. . . . . .	. . . . .	881
. . . . . .	129 53	4,921 68	9,700 00	3	46,000 00	$15,700 00	$2,400 00	. . . . .	979
. . . . . .	217 80	5,075 73	3,247 34	. . . . . .	13,500 00	400 00	. . . . . .	. . . . .	484
. . . . . .	239 33	3,231 06	. . . . . .	. . . . . .	4,000 00	18 00	. . . . . .	. . . . .	211
. . . . . .	540 86	9,942 48	. . . . . .	. . . . . .	9,000 00	. . . . . .	. . . . . .	. . . . .	502
. . . . . .	197 90	3,475 93	. . . . . .	3	6,000 00	. . . . . .	. . . . . .	. . . . .	314
. . . . . .	130 60	4,708 96	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	411
. . . . . .	177 85	4,005 09	. . . . . .	. . . . . .	3,500 00	. . . . . .	. . . . . .	. . . . .	287
. . . . . .	163 12	6,609 59	1,092 47	3⅓	10,000 00	. . . . . .	. . . . . .	. . . . .	452
. . . . . .	8 00	2,665 56	. . . . . .	. . . . . .	12,000 00	. . . . . .	. . . . . .	. . . . .	394
. . . . . .	17 20	1,143 80	. . . . . .	. . . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	208
. . . . . .	96 95	3,392 00	. . . . . .	2	4,990 00	. . . . . .	. . . . . .	. . . . .	393
. . . . . .	59 77	1,783 18	. . . . . .	8	2,676 00	. . . . . .	. . . . . .	. . . . .	229
. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . . .	2,400 00	. . . . . .	. . . . . .	. . . . .	91
. . . . . .	80	1,491 99	. . . . . .	. . . . . .	1,500 00	. . . . . .	. . . . . .	. . . . .	47
. . . . . .	77 05	2,257 33	7,025 00	. . . . . .	20,000 00	. . . . . .	. . . . . .	. . . . .	472
. . . . . .	187 21	4,749 11	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	404
. . . . . .	155 45	3,632 16	230 00	. . . . . .	7,200 00	. . . . . .	. . . . . .	. . . . .	412
. . . . .	92 10	2,630 68	. . . . . .	. . . . . .	7,500 00	. . . . . .	. . . . . .	. . . . .	145
. . . . . .	103 17	633 17	. . . . . .	2	4,000 00	100 00	. . . . . .	. . . . .	187
. . . . . .	4 11	3,364 90	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . .	701
. . . . . .	12 95	2,646 23	. . . . . .	7	17,000 00	. . . . . .	. . . . . .	. . . . .	554
. . . . . .	18 10	945 35	. . . . . .	. . . . . .	1,000 00	. . . . . .	. . . . . .	. . . . .	96
. . . . . .	58 50	3,462 46	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	290
. . . . . .	49 00	735 54	. . . . . .	. . . . . .	1,500 00	. . . . . .	. . . . . .	. . . . .	113
. . . . . .	72 23	2,113 96	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	309
. . . . . .	105 00	2,177 62	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	321
. . . . . .	25	2,944 20	1,300 00	. . . . . .	15,000 00	. . . . . .	600 00	. . . . .	617
. . . . . .	109 40	651 38	. . . . .	. . . . . .	1,600 00	. . . . . .	. . . . . .	. . . . .	153
. . . . . .	$3,853 47	$168,001 90	$22,894 81	. . . . . .	$252,366 00	$16,218 00	$3,000 00	. . . . .	18,698

DELAWARE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Aston,	$947,759	...	......	2½	$2,790 40	1½	$1,421 64	...	.....
Bethel,	354,872	...	......	2	818 07	2½	881 18	...	.....
Birmingham,	710,000	...	......	2¾	2,100 25	1½	1,061 25	...	.....
Concord,	1,160,025	...	......	2	3,425,04	2¼	2,603 17	...	.....
Upper Chichester,	480,519	...	......	2½	1,336 30	2	961 03	...	.....
Lower Chichester,	820,211	...	......	2½	2,372 53	1½	1,230 31	...	.....
Chester township,	560,000	...	......	2	1,120 00	4	2,240 00	...	.....
Chester,	6,517,743	...	*	3½	25,651 09	...	......	...	.....
North Chester borough,	612,177	...	*	3	2,120 53	...	......	...	.....
South Chester borough,	1,046,115	7	7,322 81	5	5,300 64	...	......	...	.....
Darby borough,	1,706,175	4½	4,513 25	4	3,953 40	...	......	...	.....
Darby township,	985,810	...	......	1	1,232 81	1	985 81	...	.....
Upper Darby,	1,360,575	...	......	1½	5,179 14	1¾	5,700 00	...	.....
Edgmont,	735,500	...	......	2½	1,838 75	¼	919 37	...	.....
Haverford,	1,758,590	...	......	2	3,517 18	2⅝	4,616 29	...	.....
Marple,	956,405	...	......	1½	1,616 60	1	956 40	...	.....
Middletown,	1,463,027	...	......	2¼	4,172 57	2	2,926 05	...	.....
Media borough,	1,176 415	...	*	3½	4,519 44	...	......	...	.....
Newtown,	900,000	...	......	1¼	1,180 32	1¼	1,361 53	...	.....
Upper Providence,	667,439	...	......	3½	2,439 26	...	1,047 87	...	.....
Lower Providence,	923,681	..	......	2	1,659 96	3	2,665 81	...	.....
Radnor,	1,680,200	...	......	2½	4,677 00	3½	5,880 00	...	.....
Ridley,	1,519,478	...	......	2	3,380 96	2	3,038 95	...	.....
Springfield,	1,105,238	...	......	2¼	2,782 78	2	2,210 47	...	.....
Thornebury,	828,736	...	......	2¼	1,822 86	1¾	1,498 78	...	.....
Tinicum,	246,420	...	......	4	1,010 68	3	739 26	...	.....
Upland borough,	813,605	4	3,254 42	3	2,512 07	...	......	...	.....
	$32,036,715	...	$15,090 48	...	$94,530 63	...	$44,951 41	...	.....

* Not reported.

ELK

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Benezette,	$294,035 00	...	......	10	$3,118 35	10	$2,940 35	...	.....
Benzinger,	226,944 00	...	......	10	2,269 44	10	2,269 44	5	$1,134 72
Fox,	242,626 00	...	......	8	2,383 01	10	2,426 26	...	.....
Highland,	115,489 00	...	......	5	577 44	10	1,154 89	...	.....
Horton,	167,470 00	...	......	10	1,624 70	10	1,624 70	3	487 41
Jay,	210,272 00	...	......	7	1,597 62	8	1,707 13	3	651 83
Jones,	312,234 00	...	......	10	3,517 34	10	3,122 34	...	.....
Millstone,	91,224 00	...	......	8	729 79	10	912 24	4	364 89
Ridgway,	346,669 00	...	......	10	3,921 69	8	2,773 35	...	.....
Spring Creek,	107,062 00	...	......	13	1,492 81	10	1,070 62	...	.....
St. Mary's borough,	159,320 00	12	$1,923 84	8	1,282 56	...	......	5	796 60
Total,	$2,273,345 00	...	$1,923 84	...	$22,514 75	...	$20,001 32	...	$3,435 45

COUNTY.

Amount of water tax,	Amount of State tax.	Amount of county tax at the rate of four mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$367 70	$3,791 04	......	......	$12,000 00	......	......	.....	421
......	218 23	1,345 03	......	......	3,000 00	......	......	.....	153
......	222 78	2,564 56	$1,969 13	1¼	1,500 00	......	......	.....	189
......	391 50	4,637 45	3,600 00	¾	17,400 00	......	......	.....	300
......	67 35	1,922 08	......	......	6,000 00	......	......	.....	135
......	304 93	3,280 84	......	......	8,000 00	......	......	.....	322
......	212 79	2,115 96	......	......	4,500 00	$3,500 00	......	.....	100
......	1,279 95	26,070 97	......	......	120,000 00	......	......	.....	2,839
......	905 32	2,448 71	......	......	6,000 00	......	......	.....	284
......	177 60	4,215 42	4,000 00	......	15,000 00	67,275 74	$3,000 00	.....	400
......	276 78	4,032 00	......	......	5,000 00	......	......	.....	323
......	67 10	3,943 24	......	......	8,000 00	......	......	.....	247
......	1,470 00	11,950 35	......	......	18.000 00	......	......	.....	791
......	198 40	2,808 70	500 00	......	6,300 00	......	......	.....	160
......	356 60	6,749 15	4,777 66	......	15,000 00	......	......	.....	273
......	176 80	3,825 62	......	......	6,000 00	......	......	.....	182
......	211 70	5,852 11	......	......	16,000 00	......	......	.....	515
......	1,050 03	4,705 66	......	......	10,000 00	......	......	.....	402
......	162 45	3,513 50	......	......	4,500 00	1,000 00	......	.....	180
......	165 65	2,669 76	800 00	......	8,000 00	......	......	.....	227
......	246 03	3,350 35	......	......	7,500 00	35 64	......	.....	260
......	401 77	6,791 70	2,250 00	......	12,000 00	......	......	.....	275
......	262 25	6,077 91	......	......	12,000 00	......	......	.....	342
......	436 60	4,420 95	......	......	10,000 00	......	......	.....	296
......	213 86	3,138 05	......	......	6,000 00	......	......	.....	256
......	24 00	985 68	......	......	2,000 00	......	......	.....	25
......	1,636 45	2,899 62	126 50	......	11,000 00	......	......	.....	297
......	$11,504 62	$130,106 41	$18,023 29	......	$353,700 00	$71,811 38	$3,000 00	.....	10,194

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of eight mills.	Amount of school debt, city or borough.	Amount of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$52 86	$2,352 28	......	......	$3,500 00	......	......	.....	178
......	35 92	1,829 04	......	5	5,000 00	$7,000 00	......	.....	431
......	44 55	1,941 01	......	......	7,000 00	......	......	.....	412
......	6 64	958 16	......	......	500 00	200 00	......	.....	46
......	22 75	1,296 20	......	4½	3,500 00	......	......	.....	171
......	18 23	1,682 18	......	......	6,000 00	......	......	.....	150
......	34 61	2,498 59	......	......	3,600 00	......	......	.....	395
......	13 14	693 90	......	......	3,000 00	904 75	......	.....	47
......	67 66	2,773 59	......	......	6,000 00	......	......	.....	455
......	15 60	856 50	......	......	4,000 00	......	......	.....	101
......	9 82	1,288 46	......	......	2,500 00	5,189 52	$2,000 00	.....	311
......	$321 78	$18,169 91	......	......	$44,600 00	$13,294 27	$2,000 00	.....	2,697

ERIE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax.	Whole amount of poor tax.
Erie, ...	$13,235,627	14	$180,000 00	5	$68,941 39	. . .	. . . .	. . .	. . . . . .
Mill Creek township, . .	2,626,404	. . .	. . . .	2½	7,327 01	2	$5,252 80	. . .	. . . . . .
Harbor Creek township,	1,230,582	. . .	. . . .	3	4,171 75	2	2,461 16	. . .	. . . . . .
North-East township, . .	1,509,365	. . .	. . . .	2½	5 089 27	2	3,018 73	. . .	. . . . . .
North-East borough, . .	532,855	. . .	*	2½	1,956 14	. . .	. . . .	. . .	. . . . . .
Greenfield township, . .	402,740	. . .	. . . .	3	1,628 11	2	81 46	. . .	. . . . . .
Venango township, . .	641,110	. . .	. . . .	2	1,705 22	2	1,282 22	. . .	. . . . . .
Wattsburg borough, . .	80,020	. . .	*	6	584 12	. . .	. . . .	. . .	. . . . . .
Amity township, ...	404,524	. . .	. . . .	3¼	1,593 70	2	809 04	. . .	. . . . . .
Wayne township, ...	601,850	. . .	. . . .	4½	3,098 32	2	1,203 70	. . .	. . . . . .
Concord township, . . .	615,690	. . .	. . . .	2	1,231 38	2½	1,569 22	. . .	. . . . . .
Elgin borough, ...	46,260	1	46 26	2½	115 65	. . .	. . . .	. . .	. . . . . .
Corry city, ...	1,256,399	15½	19,574 00	12	15,076 00	. . .	. . . .	. . .	. . . . . .
Union township, ...	592,418	. . .	. . . .	3	2,223 24	1½	888 63	. . .	. . . . . .
Union city, ...	488,691	10	4,886 91	7	3,420 83	. . .	. . . . . .	. . .	. . . . . .
Le Bœuff township, . . .	609,061	. . .	. . . .	1½	1,299 59	2	1,218 12	. . .	. . . . . .
Mill Village borough, . .	94,063	. . .	*	3	397 19	. . .	. . . .	. . .	. . . . . .
Waterford borough, . .	312,090	. . .	*	5	1,835 45	. . .	. . . .	. . .	. . . . . .
Waterford towhship, . .	893,989	. . .	. . . . . .	2½	2,429 35	2½	2,737 75	½	$446 99
Greene township, ...	601,690	. . .	. . . .	1½	1,315 53	2½	1,502 77	. . .	. . . . . .
Summit township, ...	460,424	. . .	. . . .	2	1,225 85	2	920 84	. . .	. . . . . .
McKean township, . . .	695,180	. . .	. . . .	2	1,723 19	1½	1,042 77	1¼	883 73
Middleboro' borough, .	44,065	. . .	*	1¾	124 09	. . .	. . . .	. . .	. . . . . .
Washington township, .	876,685	. . .	. . . .	1½	1,574 33	1	869 58	. . .	. . . . . .
Eden borough, ...	300,000	3½	1,050 00	4	1,200 00	. . .	. . . .	. . .	. . . . . .
Franklin township, . . .	382,753	. . .	. . . .	2 2-10	1,223 00	1½	557 00	. . .	. . . . . .
Elk Creek township, . .	501,307	. . .	. . . .	3	1,882 03	1¼	626 62	. . .	. . . . . .
Conneaut township, . .	637,096	. . .	. . . .	2½	1,593 00	2½	1,593 00	. . .	. . . . . .
Albion borough, ...	109,320	. . .	*	6	789 92	. . .	. . . .	. . .	. . . . . .
Springfield township, . .	1,123,161	. . .	. . . .	1½	2,269 09	½	561 58	. . .	. . . . . .
Girard township, ...	1,371,824	. . .	. . . .	1½	2,434 21	3	5,296 44	. . .	. . . . . .
Girard borough, ...	342,500	4	1,370 23	3½	1,973 56	. . .	. . . .	. . .	. . . . . .
Lockport borough, . . .	100,409	1	93 18	2½	335 23	. . .	. . . .	. . .	. . . . . .
Fairview township, . . .	1,103,002	. . .	. . . .	4	4,862 00	2	2,206 00	. . .	. . . . . .
Fairview borough, . . .	238,216	. . .	*	3	841 65	. . .	. . . .	. . .	. . . . . .
Total, ...	$35,061,370		$207,020 58	. . .	$149,490 40	. . .	$35,699 43	. . .	$1,330 72

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of two and a half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$400 20	$33,088 15	......	......	$299,800 00	......	......	......	8,976
......	12 15	6,566 01	......	......	7,000 00	......	......	......	761
......	13 80	3,076 46	......	......	6,500 00	......	......	......	480
......	23 85	3,746 41	......	½	10,000 00	......	......	......	625
......	......	1,332 14	......	......	2,000 00	......	......	......	624
......	4 85	1,017 92	......	1	3,800 00	......	......	......	235
......	8 00	1,602 75	......	......	5 500 00	......	......	......	423
......	12 20	200 05	......	......	1,500 00	......	......	......	104
......	1 35	1,011 31	......	......	1,000 00	......	......	......	279
......	3 90	1,504 64	......	......	6,000 00	......	......	......	390
......	14 97	1,348 13	......	......	6,000 00	......	......	......	274
......	5 10	113 77	......	......	300 00	......	......	......	47
......	40 25	2,152 89	$30,500 00	......	50,000 00	$78,458 73	$49,781 16	......	1,465
......	3 00	1,481 04	......	......	6,500 00	......	......	......	446
......	11 50	1,258 29	......	......	10,000 00	10,800 00	2,500 00	......	690
......	10 75	1,522 65	......	......	5,500 00	......	......	......	386
......	3 50	235 16	......	......	1,500 00	......	......	......	115
......	166 75	780 23	......	......	1,500 00	......	......	......	275
......	24 80	2,258 49	......	......	7,500 00	......	......	......	624
......	......	1,504 20	......	......	4,000 00	......	......	......	413
......	1 50	1,151 04	......	......	4,500 00	......	......	......	305
......	......	1,741 18	......	......	7,000 00	......	......	......	434
......	1 25	110 28	......	......	500 00	......	......	......	47
......	21 60	2,221 48	......	¾	5,600 00	......	......	......	543
......	30 67	584 35	......	......	50,000 00	......	1,000 00	......	175
......	......	939 87	......	......	4,000 00	......	......	......	359
......	......	1,279 53	......	......	7,850 00	......	......	......	443
......	22 06	1,592 80	......	......	4,200 00	......	......	......	438
......	10 50	273 30	......	......	1,000 00	......	......	......	134
......	21 00	2,877 58	......	......	10,000 00	......	......	......	513
......	30 88	3,495 50	......	½	10,850 00	......	......	......	663
......	16 35	856 73	......	......	10,000 00	927 92	1,200 00	......	246
......	......	244 43	......	......	1,400 00	......	......	......	104
......	6 75	2,757 50	......	......	6,000 00	......	......	......	450
......	8 55	595 54	......	......	1,500 00	......	......	......	127
......	$931 98	$87,521 87	$30,500 00	......	$550,300 00	$927 92	$90,458 73	53,281 16	19,513

FAYETTE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Bellevernon borough,	$159,447	...	*	6	$1,232 68	...	......	...	.....
Bullskin township,	558,150	...	......	2	2,692 44	4½	$2,709 42	...	.....
Bridgeport borough,	253,000	4	$993 72	10	2,467 80	...	......	...	.....
Brownsville borough,	476,120	...	*	5	2,884 60	...	......	...	.....
Brownsville township,	97,090	...	......	2	271 18	6	582 54	...	.....
Connellsville borough,	592,972	10	6,306 48	8	5,560 54	...	......	...	.....
Connellsville township,	337,576	...	......	3½	1,494 52	5	1,687 88	...	.....
Dawson borough,	114,100	...	*	3½	535 35	...	......	...	.....
Dunbar township,	1,452,406	...	......	2¼	3,977 94	2	2,578 46	...	.....
Franklin township,	632,944	...	......	2	1,616 89	2	1,265 88	...	.....
Fayette City borough,	172,865	...	*	10	1,985 65	...	......	...	.....
George's township,	906,187	...	......	2	2,543 37	5	4,530 93	...	.....
German township,	917,854	...	......	2¼	2,556 17	3	2,753 56	...	.....
Henry Clay township,	164,700	...	......	7	1,152 92	6	988 20	...	.....
Jefferson township,	800,000	...	......	2	1,600 00	1½	1,200 00	...	.....
Luzerne township,	1,034,524	...	......	1½	2,045 78	2	2,069 04	...	.....
Menallen township,	546,511	...	......	1½	819 76	3	1,639 53	...	.....
Masontown borough,	76,448	3¾	286 68	4	320 00	...	......	...	.....
North Union township,	942,923	...	......	1½	2,655 51	2½	2,276 89	...	.....
Nicholson township,	591,333	...	......	2	1,487 67	1½	887 00	...	.....
New Haven borough,	115,000	3	363 50	4½	594 50	...	......	...	.....
Perry township,	620,993	...	......	2⅛	1,599 30	1½	931 49	...	.....
Redstone township,	682,655	...	......	2½	1,996 64	1½	1,023 97	...	.....
Saltlick township,	157,023	...	......	9	1,756 21	10	1,570 23	...	.....
Stewart township,	149,122	...	......	9	1,578 10	10	1,701 97	...	.....
Springfield township,	237,017	...	......	10	2,789 17	6	1,422 10	...	.....
South Union township,	429,835	...	......	1	1,080 64	2½	1,074 58	...	.....
Tyrone township,	855,062	...	......	3	5,500 00	5	6,000 00	...	.....
Union borough,	843,195	5	4,093 61	5½	4,916 30	...	......	...	.....
Washington township,	369.237	...	......	3	1,362 71	5	1,846 18	...	.....
Wharton township,	265,324	...	......	9	2,819 92	6	1,597 94	...	.....
Total,	$15,551,613	...	$12,043 99	...	$65,894 26	...	$42,337 79	...	.....

* Not reported.

FOREST

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Barnett township,	$95,075	...	......	10	$1,092 75	10	$950 75	...	.....
Green township,	139,398	...	......	6	935 39	10	1,393 98	...	.....
Harmony township,	254,957	...	......	10	2,549 57	5	1,182 66	...	.....
Hickory township,	152,527	...	......	4	673 00	10	1,525 00	...	.....
Howe township,	201,079	...	......	10	2,010 79	10	2,010 79	...	.....
Jenks township,	215,263	...	......	4	2,147 99	10	1,906 61	...	.....
Kingsley township,	176,203	...	......	5	880 00	10	1,762 00	...	.....
Tionesta township,	154,941	...	......	7½	1,549 41	6	1,097 24	...	.....
Tionesta borough,	122,435	9½	$1,163 13	5	612 17	...	......	...	.....
Total,	$1,511,878	...	$1,163 13	...	$12,451 07	...	$11,829 03	...	.....

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of five mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$43 82	$797 23	......	......	$5,000 00	......	......	......	276
......	72 77	2,995 75	......	......	13,000 00	......	......	......	635
......	32 62	1,284 00	$500 00	......	10,000 00	......	$6,000 00	......	357
......	82 15	2,380 60	......	......	7,200 00	......	......	......	504
......	7 56	435 45	......	......	900 00	......	......	......	77
......	131 50	3,449 41	7,500 00	......	20,000 00	$14,000 00	1,000 00	......	925
......	31 76	1,687 88	......	......	2,700 00	......	......	......	313
......	50 40	570 50	......	......	900 00	......	......	......	136
......	317 70	7,262 03	......	......	13,500 00	......	......	......	1,266
......	134 73	3,164 72	......	......	5,000 00	......	......	......	351
......	41 85	864 32	......	......	4,500 00	......	......	......	257
......	138 86	4,530 93	......	......	10,000 00	......	......	......	731
......	173 91	4,589 27	......	......	10,000 00	......	......	......	491
......	32 41	731 38	......	......	2,800 00	......	......	......	271
......	127 39	3,325 45	......	......	4,000 00	......	......	......	391
......	216 00	5,172 62	......	......	8,000 00	......	......	......	494
......	101 77	2,771 99	......	......	12,500 00	......	......	......	387
......	133 63	401 86	......	......	3,500 00	......	......	......	111
......	183 75	4,611 86	74 89	......	10,000 00	......	......	......	625
......	123 63	3,145 56	......	......	4,400 00	......	......	......	364
......	11 82	619 53	......	......	1,000 00	......	300 00	......	122
......	148 92	3,200 78	717 22	......	14,200 00	......	......	......	376
......	85 12	3,413 27	......	......	8,000 00	......	......	......	290
......	49 94	785 11	......	......	9,000 00	......	......	......	343
......	33 98	848 23	......	......	4,500 00	......	......	......	355
......	43 03	1,185 08	......	......	10,000 00	......	......	......	419
......	91 03	2,149 17	......	......	5,000 00	......	......	......	302
......	112 27	4,958 37	815 00	2	20,000 00	......	......	......	1,148
......	273 21	4,393 61	16,473 91	......	53,000 00	7,100 00	......	......	870
......	47 52	1,846 18	......	......	4,500 00	......	......	......	255
......	43 58	1,326 62	......	......	2,900 00	......	......	......	432
......	$3,120 83	$81,616 76	$26,081 02	......	$280,000 00	$21,100 00	$7,300 00	......	14,314

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$16 00	$950 85	......	......	$3,000 00	$112 00	......	......	142
......	20 70	1,393 98	......	......	3,200 00	......	......	......	99
......	39 36	2,542 92	......	......	7,000 00	......	......	......	165
......	19 64	1,525 29	......	......	1,500 00	......	......	......	106
......	10 74	2,010 79	......	......	625 00	772 84	......	......	79
......	6 88	2,147 99	......	......	1,500 00	......	......	......	52
......	22 26	1,761 49	......	......	1,000 00	......	......	......	95
......	18 66	1,546 41	......	......	4,000 00	......	......	......	108
......	38 08	1,232 00	......	......	2,500 00	......	$200 00	......	137
......	$192 32	$15,111 72	......	......	$24,325 00	$884 84	$200 00	......	983

FRANKLIN

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Antrim township,	$1,980,321 00	. . .	. . . . . .	2½	$6,000 00	1¼	2,475 40	. . .	. . . . .
Chambersburg,	1,695,346 00	8½	$14,410 00	8	14,734 63	. . .	. . . . . .	. . .	. . . . .
Fannet township,	540,000 00	. . .	. . . . . .	3	2,001 50	4	1,757 00	. . .	. . . . .
Guilford township,	1,809,298 00	. . .	. . . . . .	2½	5,158 00	2	3,500 00	. . .	. . . . .
Green township,	1,507,520 00	. . .	. . . . . .	4	7,057 08	2	3,015 04	. . .	. . . . .
Green Castle borough,	309,880 00	3	857 67	7	2,390 43	. . .	. . . . . .	. . .	. . . . .
Hamilton township,	620,194 00	. . .	. . . . . .	2½	2,510 00	3	1,810 00	. . .	. . . . .
Letterkenny township,	900,692 00	. . .	. . . . . .	1½	1,793 00	2½	2,000 00	. . .	. . . . .
Lurgan township,	425,815 00	. . .	. . . . . .	3	1,657 45	3	1,277 45	. . .	. . . . .
Montgomery township,	1,176,294 00	. . .	. . . . . .	2½	3,473 00	1¼	1,415 00	. . .	. . . . .
Metal township,	325,127 00	. .	. . . . . .	3½	1,655 06	3½	1,514 45	. . .	. . . . .
Mercersburg borough,	206,347 00	. . .	*	3½	1,047 21	. . .	. . . . . .	. .	. . . . .
Peters township,	1,195,143 00	. . .	. . . . . .	3½	4,183 00	2	2,342 31	. . .	. . . . .
Quincy township,	1,028,794 00	. . .	. . . . . .	3	3,086 38	2½	2,570 00	. . .	. . . . .
Southampton township,	656,000 00	. . .	. . . . . .	3½	3,017 09	1¾	1,861 73	. . .	. . . . .
St. Thomas township,	829,500 00	. . .	. . . . . .	2¼	2,388 29	2¼	1,860 00	. . .	. . . . .
Warren township,	180,000 00	. . .	. . . . . .	6	577 00	4½	370 00	. . .	. . . . .
Washington township,	1,319,251 43	. . .	. . . . . .	3½	4,617 38	1½	1,978 88	. . .	. . . . .
Waynesborough,	250,137 00	. . .	. . . . . .	10	2,948 37	. . .	. . . . . .	. . .	. . . . .
Total,	16,955,659 00	. .	$15,267 67	. . .	$70,294 87	. . .	$29,747 26	. . .	. . . . .

* Not reported.

FULTON

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Ayr township,	$221,009 00	. . .	. . . . . .	4	$1,270 00	4	$844 00	2½	$200 00
Bethel township,	122,123 75	. . .	. . . . . .	6	732 75	6	732 75	2	244 24
Belfast township,	55,902 00	. . .	. . . . . .	10	814 02	10	559 02	. . .	. . . . .
Brush Creek township,	77,379 00	. . .	. . . . . .	6	582 22	6	464 27	5	386 89
Dublin township,	96,932 00	. . .	. . . . . .	7	678 52	5	484 66	. . .	. . . . .
Licking Creek township,	71,636 00	. . .	. . . . . .	6	616 97	6	429 81	2	142 00
McConnellsburg boro'	139,836 00	5	233 06	12	629 14	5	233 06	. . .	. . . . .
Taylor township,	107,150 00	. . .	. . . . . .	8	857 20	6	642 80	3	319 56
Thompson township,	63,287 00	. . .	. . . . . .	6	365 09	10	632 87	. . .	. . . . .
Tod township,	92,847 00	. . .	. . . . . .	3½	350 66	4	371 38	2	165 69
Union township,	37,533 00	. . .	. . . . . .	9	483 80	10	375 33	. . .	. . . . .
Wells township,	96,266 00	. .	. . . . . .	6	557 00	10	926 66	4	385 00
Total,	$1,181,891 75	. . .	$233 06	. . .	$7,942 37	. . .	$6,732 71	. . .	$1,843 38

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of . . . mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$693 24	$8.865 55	......	¼	$22,000 00	......	......	......	$1,132
$4,662 00	552 99	7.062 29	$12,160 00	......	36,000 00	$95,000 00	......	......	1,891
......	208 38	2,483 05	......	......	11,000 00	200 00	......	......	530
......	611 15	7,237 19	......	......	14,000 00	......	......	......	935
......	436 42	6,030 08	......	......	16.000 00	......	......	......	1,027
......	115 97	1,227 68	1,401 00	......	5,500 00	500 00	$2,000 00	......	429
......	177 28	2,464 17	266 00	1	8,000 00	......	......	......	497
......	335 09	3,433 25	......	1½	10,000 00	......	......	......	633
......	160 14	1,703 26	......	......	7.000 00	......	......	......	380
......	431 23	5,048 95	......	1¾	11,000 00	......	......	......	772
......	81 39	1,612 72	355 99	......	8,500 00	......	......	......	384
......	76 49	825 39	......	......	6,000 00	......	......	......	325
......	470 53	5,026 86	......	......	10,000 00	......	......	......	772
......	335 50	4,144 23	......	4-5	10.000 00	......	......	......	858
......	201 59	3,917 20	1,172 75	1	20.000 00	......	......	......	573
......	318 01	3,306 98	......	1⅛	5,400 00	......	......	......	607
......	34 98	426 27	......	......	2,500 00	......	......	......	172
......	496 80	3,534 75	......	1⅛	16,000 00	......	......	......	666
......	120 20	1,000 55	......	......	4,000 00	......	......	......	447
$4,662 00	$5,857 35	$71,350 22	$15,355 74	......	$222,900 00	$95,700 09	$2,000 00	......	$13,030

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of nine mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	......	$1,860 53	......	......	$4,000 00	......	......	$1,900 00	337
......	......	789 72	......	2	1,850 00	$40 00	......	......	242
......	......	502 12	......	......	3.200 00	......	......	......	260
......	......	674 47	......	......	2,000 00	200 00	......	......	231
......	......	748 80	......	......	2,800 00	......	......	......	270
......	......	647 84	......	......	2,000 00	......	......	......	238
......	......	340 70	......	......	500 00	......	......	......	151
......	......	905 31	......	......	3,000 00	......	......	......	268
......	......	576 25	......	......	2,100 00	......	......	......	190
......	......	813 23	......	......	1.200 00	......	......	......	207
......	......	337 79	......	......	1,200 00	......	......	......	146
......	......	832 39	......	......	1,000 00	......	......	......	197
......	$200 93	$9,130 15	......	......	$24,850 00	$240 00	......	$1,900 00	$2,757

GREENE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax —mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Marion,	$327,785	...	......	4	$1,838 08	6	$1,966 71	...	.....
Dunkard,	385,102	..	......	3	1,598 31	5	1,925 51	...	.....
Morris,	349,134	...	......	3½	1,550 96	3½	1,221 96	...	.....
Wayne,	342,792	...	......	5	2,124 96	4	1,371 16	...	.....
Whiteley,	307,970	...	......	4	1,501 88	3	923 91	...	.....
Gilmore,	177,672	...	......	4	1,155 79	7	950 33	...	.....
Washington,	335,955	...	......	3	1,172 49	3½	1,175 84	...	.....
Franklin,	611,832	...	......	2½	1,944 62	2	1,222 00	...	.....
Perry,	259,645	...	......	7	1,643 98	5	1,387 00	...	.....
Greene,	262,447	...	......	2½	846 12	5	1,312 23	...	.....
Morgan,	312,746	...	......	2½	1,114 89	2½	750 36	...	.....
Carmichael borough,	67,848	2	$126 00	8	660 00	...	......	...	.....
Monongahela,	259,669	...	......	6	2,005 01	5	1,348 34	...	.....
Cumberland,	702,231	...	......	2	1,984 46	2	1,404 46	...	.....
Jefferson,	391,096	...	......	3	1,518 43	5	1,743 05	...	.....
Centre,	469,930	...	......	5	2,831 65	3	1,409 79	...	.....
Jackson,	186,137	...	......	3½	820 18	4	913 54	...	.....
Allepo,	215,712	...	......	5	1,349 56	8	1,725 70	...	.....
Richhill,	56,000	...	......	3	2,159 89	8	4,000 00	...	.....
Springhill,	151,181	...	......	9	1,634 01	10	1,511 81	...	.....
	$6,182,884	...	$126 00	...	$31,455 87	...	$28,263 70	...	.....

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of — mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$67 23	$2,609 16	. . . . . .	. . . . . .	$8.000 00	. . . . . .	. . . . . .	. . . . .	383
. . . . . .	66 62	3,080 81	. . . . . .	. . . . . .	6,300 00	. . . . . .	. . . . . .	. . . . .	443
. . . . . .	55 30	2,497 51	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	337
. . . . . .	59 55	2,742 33	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	411
. . . . . .	73 94	2,463 76	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	270
. . . . . .	74 87	1,345 74	$1,072 15	4	4,600 00	. . . . . .	. . . . . .	. . . . .	180
. . . . . .	54 28	2,636 74	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	229
. . . . . .	112 45	5,075 76	. . . . . .	. . . . . .	16,000 00	. . . . . .	. . . . . .	. . . . .	410
. . . . . .	67 85	2,018 29	150 00	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	378
. . . . . .	81 22	2,099 57	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	190
. . . . . .	74 87	1,345 74	. . . . . .	3¾	6,000 00	. . . . . .	. . . . . .	. . . . .	338
. . . . . .	12 32	562 28	400 00	. . . . . .	2,500 00	$220 00	. . . . . .	. . . . .	163
. . . . . .	78 58	2,157 35	. . . . . .	. . . . . .	5,600 00	. . . . . .	. . . . . .	. . . . .	387
. . . . . .	90 48	5,617 84	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	580
. . . . . .	95 15	3,112 56	. . . . . .	. . . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	385
. . . . . .	162 33	3,759 44	. . . . . .	. . . . . .	9,000 00	. . . . . .	. . . . . .	. . . . .	482
. . . . . .	28 57	1,560 87	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	282
. . . . . .	42 47	1,478 41	250 00	. . . . . .	5,400 00	. . . . . .	. . . . . .	. . . . .	316
. . . . . .	156 09	4,630 16	. . . . . .	. . . . . .	19,000 00	. . . . . .	. . . . . .	. . . . .	511
. . . . . .	37 73	1,178 91	1,000 00	. . . . . .	4,000 00	300 00	. . . . . .	. . . . .	354
. . . . . .	$1,491 43	$53,170 81	$2,872 15	. . . . . .	$134,900 00	$520 00	. . . . . .	. . . . .	7,029

HUNTINGDON

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Alexandria borough, . .	$72,340 00	. . .	*	10	$881 40	. . .	. . . . . .	. . .	. . . . .
Barree township, ...	221,000 00	. . .	. . . . . .	6	1,326 00	7	$1,547 00	. . .	. . . . .
Brady township, ...	171,400 00	. . .	. . . . . .	4½	996 87	5	821 21	. . .	. . . . .
Broad Top borough, . . .	28,000 00	6	$174 00	6	254 00	. . .	. . . . . .	. . .	. . . . .
Cass township, ...	75,831 00	. . .	. . . . . .	10	981 59	10	758 31	. . .	. . . . .
Cassville borough, ...	16,906 00	4	67 00	10	231 00	. . .	. . . . . .	. . .	. . . . .
Clay township, ...	75,628 00	. . .	. . . . . .	9	833 40	10	756 28	. . .	. . . . .
Cromwell township, . .	169,653 00	. . .	. . . . . .	7	1,420 00	10	1,823 49	. . .	. . . . .
Carbon township, ...	140,000 00	. . .	. . . . . .	10	1,491 38	10	1,400 00	. . .	. . . . .
Coalmont borough, . . .	16,050 00	10	162 30	9	169 28	. . .	. . . . . .	. . .	. . . . .
Dublin township, ...	84,350 00	. . .	. . . . . .	10	844 30	7½	655 51	. . .	. . . . .
Franklin township, . . .	467,183 00	. . .	. . . . . .	2	1,199 37	2	934 36	. . .	. . . . .
Henderson township, . .	71,852 50	. . .	. . . . . .	10	1,120 44	10	739 17	. . .	. . . . .
Hopewell township, . .	55,000 00	. . .	. . . . . .	7	400 00	7	400 00	. . .	. . . . .
Huntingdon borough, .	734,321 00	8	5,810 00	8	6,305 00	. . .	. . . . . .	. . .	. . . . .
Juniata township, ...	44,682 50	. . .	. . . . . .	10	539 82	10	446 00	. . .	. . . . .
Jackson township, . . .	260,160 00	. . .	. . . . . .	9	2,512 50	9	2,557 39	. . .	. . . . .
Lincoln township, ...	80,756 00	. . .	. . . . . .	6	583 83	8	646 00	. . .	. . . . .
Morris township, ...	234,370 00	. . .	. . . . . .	4	937 48	3	603 11	. . .	. . . . .
Mapleton borough, . . .	29,000 00	6	178 60	9	261 00	. . .	. . . . . .	. . .	. . . . .
Mount Union borough, .	92,611 43	5	490 00	7	800 28	. . .	. . . . . .	. . .	. . . . .
Markleysburg borough,	22,241 00	1	30 10	5	144 97	. . .	. . . . . .	. . .	. . . . .
Orbisonia borough, . . .	46,872 00	10	468 72	7	348 10	. . .	. . . . . .	. . .	. . . . .
Oneida township, ...	77,471 00	. . .	. . . . . .	4	707 10	8	537 74	. . .	. .
Penn township, ...	170,971 00	. . .	. . . . . .	8	1,632 77	10	1,709 71	. . .	. . . .
Porter township, ...	365,000 00	. . .	. . . . . .	2½	1,965 51	4	1,460 00	. . .	. . .
Shirley township, ...	216,173 00	. . .	. . . . . .	6	1,296 03	7	1,513 21	. . .	. . .
Shirleysburg borough, .	37,072 00	. . .	*	7	352 50	. . .	. . . . . .	. . .	. . . . .
Springfield township, . .	75,000 00	. . .	. . . . . .	7	650 00	8	619 00	. . .	. . . . .
Shade Gap borough, . . .	11,000 00	5	183 00	10	128 00	. . .	. . . . . .	. . .	. . . . .
Saltillo borough, ...	20,981 00	8	450 00	7	146 00	. . .	. . . . . .	. . .	. . . . .
Three Springs borough,	21,708 00	8	174 54	8	204 77	. . .	. . . . . .	. . .	. . . . .
Tell township, ...	70,118 00	. . .	. . . . . .	8	753 51	10	701 18	. . .	. . . . .
Todd township, ...	111,568 00	. . .	. . . . . .	13	1,663 38	10	1,115 68	. . .	. . . . .
Union township, ...	70,828 00	. . .	. . . . . .	9	787 45	10	708 28	. . .	. . . . .
Walker township, ...	174,000 00	. . .	. . . . . .	5½	1,144 69	6	1,084 00	. . .	. . . . .
Warrior's Mark township	376,042 00	. . .	. . . . . .	4	1,817 72	4	1,424 17	. . .	. . . . .
West township, ...	412,799 00	. . .	. . . . . .	8	3,759 39	3	1,238 39	. . .	. . . . .
Total, ...	$5,400,938 43	. . .	$8,188 26	. . .	$41,590 83	. . .	$26,199 19	. . .	. . . . .

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of —— mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$20 05	$723 40	......	......	$1,500 00	......	......	......	158
......	19 83	2,417 76	......	......	5,000 00	......	......	......	301
......	37 70	1,646 32	......	......	4,225 00	......	......	......	234
......	7 20	281 94	$22 80	......	500 00	$22 50	......	......	69
......	......	796 22	176 61	......	2,025 00	......	......	$900 00	206
......	24	186 44	200 00	......	900 00	......	......	......	56
......	1 00	804 47	......	......	3,500 00	20 00	......	......	200
......	5 75	1,949 02	......	3	3,600 00	439 72	......	......	440
......	6 75	1,230 22	......	......	3,000 00	......	......	......	218
......	......	165 50	......	......	300 00	......	......	......	67
......	3 90	709 65	......	6	2,100 00	......	......	......	185
......	55 05	4,671 83	......	......	4,000 00	......	......	......	265
......	50	794 55	......	......	3,000 00	......	......	......	181
......	6 30	536 65	80 00	......	1,386 00	......	......	......	129
......	468 70	7,160 01	2,000 00	......	14,000 00	10,000 00	......	......	1,060
......	6 98	434 35	......	......	2,500 00	800 00	......	......	93
......	43 70	2,370 29	......	......	6,700 00	......	......	......	407
......	2 60	782 58	......	5	2,400 00	......	......	200 00	138
......	19 25	1,977 68	......	......	3,500 00	......	......	......	174
......	2 00	294 93	......	......	3,500 00	......	......	42 90	141
......	5 77	972 64	312 00	......	3,300 00	......	$158 00	......	244
......	4 00	230 48	......	......	250 00	......	......	......	48
......	13 90	576 94	75 00	......	500 00	......	825 00	......	181
......	27 80	665 49	......	......	4,000 00	......	......	......	125
......	15 95	1,709 71	......	......	12,000 00	43 73	......	......	265
......	40 30	3,566 77	......	2½	5,000 00	......	......	......	301
......	......	2,249 03	......	......	5,000 00	200 00	......	......	374
......	15 75	370 72	......	......	500 00	......	......	......	93
......	4 30	681 57	......	......	1,800 00	......	......	......	202
......	45	103 55	......	......	300 00	......	......	......	50
......	......	150 10	......	......	500 00	......	......	......	72
......	4 00	181 72	......	......	1,000 00	......	......	......	60
......	17 50	711 45	......	6	3,200 00	......	......	......	238
......	6 20	1,115 68	......	......	4,500 00	......	......	......	213
......	......	720 03	......	......	700 00	......	......	......	203
......	......	1,829 76	......	4½	5,000 00	......	......	......	240
......	50 35	3,795 10	......	......	5,000 00	......	......	......	311
......	67 65	4,127 99	......	......	6,000 00	......	......	......	459
......	$987 16	$53,918 52	$2,866 41	......	$126,186 00	$11,525 95	$983 00	$1,529 00	8,484

INDIANA

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Armstrong township,	$350.949 00	...	......	6	$2,434 69	3	$1,052 84	...	.....
Armagh borough,	17,410 00	5	$87 05	13	238 96	...	......	...	.....
Blairsville borough,	317,298 00	5	1,586 49	3½	1,323 00	...	......	...	.....
Blacklibk township,	236,523 00	...	......	2½	862 30	6	1,419 13	...	.....
Burrell township,	415,792 00	...	......	4	1,601 43	2½	998 14	...	.....
Brush Valley township,	297,076 00	...	......	6	1,782 42	3	891 22	...	.....
Banks township,	125,349 00	...	......	6	996 28	5	1,196 00	...	.....
Buffington township,	155,868 00	...	......	3½	771 54	5	779 34	...	.....
Cherry Hill township,	314,827 00	...	......	3½	1,621 89	3	944 48	...	.....
Conemaugh township,	327,120 00	...	......	3	1,261 00	4	1.408 48	...	.....
Centre township,	522,850 00	...	......	3⅓	1,568 55	4	2,091 40	...	.....
Canoe township,	325,000 00	...	......	3	989 89	3	989 89	...	.....
Cherry Tree borough,	28,367 00	5	160 00	6	200 00	...	......	...	.....
Green township,	406,7-0 00	...	......	4	2,311 12	3	1,220 34	...	.....
Grant township,	128,751 00	...	......	5	664 13	8	1,044 78	...	.....
Homer City borough,	52,354 00	5	261 77	10	656 56	...	......	...	.....
Indiana borough,	550.508 00	6	3,268 95	7	3,853 55	...	......	...	.....
Jacksonville borough,	18.355 00	3	55 00	9	206 81	...	......	...	.....
Montgomery township,	162,237 00	...	......	5	811 18	7	1,125 65	...	.....
Mahoning, East, twp.,	272,364 00	...	......	4	923 00	5	1,361 00	...	.....
Mahoning, West, twp.,	258,526 00	...	......	3	1,069 58	4	1,034 10	...	.....
Mahoning, North, twp.,	256.846 00	...	......	5	1,284 23	4	1,027 38	...	.....
Mahoning, South, twp.,	410,934 00	...	......	2	1,116 16	5	1,923 32	...	.....
Marion borough,	62,404 00	...	*	3½	346 41	...	......	...	.....
Mechanicsburg borough,	23,130 00	none	......	7	175 14	...	......	...	.....
Pine township,	160,000 00	...	......	1½	890 20	4	1,240 71	..	.....
Rayne township,	424,320 00	...	......	3	1.272 96	7	2,970 24	...	.....
Saltsburg borough,	173,414 00	5	867 07	10	1,762 16	...	......	...	.....
Shelocta borough,	36,000 00	5	180 00	5	180 00	...	......	..	.....
Smicksburg borough,	30,598 00	...	*	2½	145 50	...	......	...	.....
Washington township,	439.780 00	...	......	4½	1,989 90	6	2,638 68	...	.....
Wheatfield, East, twp.,	198.511 00	...	......	5½	1,351 81	5	992 55	...	.....
Wheatfield, West, twp.,	246.619 00	...	......	4	1,343 48	4	986 47	...	.....
White township,	518.665 00	...	......	4⅛	2,804 00	3	1,555 99	...	.....
Young township,	429,875 00	...	......	4½	1,934 43	4	1,719 50	...	.....
Total	$8,695,400 00	...	$6,466 33	...	$42,744 26	...	$32,611 63	...	.....

* Not reported.

COUNTY.

Amount of wat tax.	Amount of State tax.	Amount of county tax at the rate of seven mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$30 68	$2,456 64	......	......	$9,600 00	......	......	......	329
......	173 26	122 53	$77 00	......	1,200 00	$140 00	......	......	54
......	211 84	2,093 70	......	......	1,500 00	20,350 00	$3,000 00	......	355
......	61 17	1,655 66	......	......	6,000 00	......	......	......	271
......	155 53	2,822 72	......	......	10,000 00	......	......	......	496
......	14 20	2,081 17	......	3	5,580 00	113 00	......	......	349
......	14 54	839 34	......	......	2,000 00	......	......	......	231
......	10 49	1,091 07	......	......	5,000 00	......	......	......	226
......	63 03	2,203 78	......	......	10,000 00	......	......	......	520
......	55 84	2.822 43	......	......	3,500 00	......	......	......	402
......	29 95	3.037 39	......	......	6,600 00	......	......	......	355
......	40 20	1,622 11	187 00	......	4.000 00	......	......	......	324
......	18 80	223 20	200 00	......	2,500 00	700 00	......	......	95
......	52 05	2,847 46	......	......	13,000 00	......	......	......	685
......	14 93	889 10	350 00	......	3,500 00	300 00	......	......	305
......	13 81	406 99	......	5	1,500 00	......	......	......	134
......	431 83	3,682 12	......	......	10,000 00	800 00	......	......	555
......	12 90	129 99	......	......	800 00	......	......	......	52
......	19 80	1,060 64	800 00	......	3,700 00	50 50	......	......	269
......	31 60	1,890 42	......	......	5,000 00	......	......	......	311
......	27 96	1,810 38	......	......	6,400 00	......	......	......	294
......	22 70	1,725 83	......	......	8,000 00	......	......	......	321
......	32 27	2,249 67	......	......	5,600 00	......	......	......	347
......	29 12	436 82	......	......	1,500 00	......	......	......	128
......	14 70	178 29	......	......	950 00	......	......	......	67
......	24 46	1,054 42	700 00	1½	3,000 00	......	......	......	289
......	24 45	2,869 51	......	......	6,000 00	......	......	......	437
......	99 32	1,199 35	4,600 00	......	4,317 00	......	......	......	258
......	17 34	216 07	......	......	800 00	......	......	......	39
......	18 91	214 18	......	......	500 00	......	......	......	69
......	60 08	3,086 31	......	......	10,000 00	......	......	......	398
......	13 40	1,389 57	......	......	6,400 00	......	......	......	260
......	39 00	1.726 33	......	......	6,000 00	......	......	......	357
......	75 43	3,630 65	......	......	9,000 00	......	......	......	470
......	50 70	2,945 06	......	......	2,000 00	......	......	......	370
......	$2,179 08	$60,386 44	$6,914 00	......	$175,447 00	$22,453 50	$3,000 00	......	10,690

JEFFERSON

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Brookville Borough,	$254,761 00	10	$2,547 61	10	$2,547 61	...	......	...	......
Big Run borough,	19,750 00	10	197 50	8	158 00	...	......	...	......
Barnett township,	26,975 00	...	......	13	440 77	10	$269 50	...	......
Bell township,	53,648 00	...	......	10	776 48	10	536 48	...	......
Beaver township,	82,184 00	...	......	9	877 67	11	904 00	...	......
Corsica borough,	22,000 00	4	88 00	12	362 00	...	......	...	......
Clayville borough,	17,069 00	2	34 12	13	223 69	...	......	...	......
Clover township,	53,855 00	...	......	13	935 11	10	533 55	...	......
Eldred township,	126,252 00	...	......	13	1,835 04	10	1,262 52	...	......
Gaskill township,	38,270 00	...	......	7	417 89	10	382 70	...	......
Heath township,	39,272 00	...	......	13	454 57	10	392 72	...	......
Henderson township,	61,260 00	...	......	10	612 60	10	612 60	...	......
Knox township,	77,183 00	...	......	10	1,021 83	10	771 83	...	......
McCalmont township,	80,946 00	...	......	7	719 62	10	809 46	...	......
Oliver township,	74,208 00	...	......	2	367 60	15	1,113 12	...	......
Punxsutawney borough,	61,000 00	14	856 77	15	917 97	...	......	...	......
Pine Creek township,	84,847 00	...	......	10	1,148 47	10	848 47	...	......
Porter township,	38,552 00	...	......	10	543 52	10	385 52	...	......
Perry township,	89,000 00	...	......	12	1,068 00	10	890 00	...	......
Polk township,	62,657 00	...	......	16	1,061 61	10	626 57	...	......
Ringgold township,	74,457 00	...	......	8	850 20	12½	1,064 00	...	......
Rose township,	85,441 00	...	......	10	854 41	10	854 41	...	......
Reynoldsville borough,	73,940 00	10	590 50	20	1,507 26	...	......	...	......
Snyder township,	62,461 00	...	......	10	1,207 50	10	624 61	...	......
Union township,	50,000 00	...	......	8	451 68	10	400 00	...	......
Washington township,	137,128 00	...	......	10	1,674 28	10	1,371 28	...	......
Warsaw township,	136,166 00	...	......	10	1,361 66	10	1,361 66	...	......
Winslow township,	150,573 00	...	......	12	2,686 37	10	1,508 73	...	......
Young township,	81,000 00	...	......	7	757 00	10	810 00	...	......
Total,	$2,214,855 00	...	$4,314 50	...	$27,840 41	...	$18,335 73	...	......

JUNIATA

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Lack township,	$99,041 00	...	......	13	$1,623 53	9	$891 36	...	......
Tuscarora township,	165,486 00	...	......	10	2,054 86	4	665 94	...	......
Spruce Hill township,	196,734 00	...	......	3½	904 81	4	786 34	...	......
Beale township,	162,800 00	...	......	6	991 24	8	1,300 00	...	......
Turbett township,	170,000 00	...	......	5	1,712 00	4	690 00	...	......
Millford township,	227,128 30	...	......	7	1,857 60	6	1,362 77	...	......
Port Royal borough,	55,000 00	5	321 00	9	321 00	...	......	...	......
Patterson borough,	70,750 00	...	*	11	992 25	...	......	...	......
Mifflintown borough,	138,082 00	5	719 74	9	1,373 52	...	......	...	......
Fermanagh township,	216,256 00	...	......	6	1,297 53	10	2,162 56	...	......
Walker township,	378,592 00	...	......	4	1,945 37	4	1,514 36	...	......
Fayette township,	262,400 00	...	......	6	2,028 82	8	2,228 05	...	......
Thompsontown borough,	22,520 00	7	170 49	17	460 88	...	......	...	......
Delaware township,	198,503 00	...	......	6	1,441 60	...	......	...	......
Greenwood township,	49,070 00	...	......	12	638 27	17	834 19	...	......
Monroe township,	107,672 26	...	......	9	1,092 47	9	872 47	...	......
Susquehanna township,	89,258 00	...	......	4	508 73	9	803 25	...	......
Total,	$2,611,342 56	...	$1,211 23	...	$21,203 93	...	$14,111 29	...	......

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$51 36	$2,500 31	......	......	$2,500 00	$3,951 53			
......	5 93	171 05	......	......	1,200 00	......	......	......	83
......	8 38	269 75	......	......	4,500 00	......	......	......	90
......	24 37	536 48	......	......	3,600 00	......	......	......	240
......	26 19	704 76	......	......	4,500 00	......	......	......	289
......	13 63	223 53	......	......	3,000 00	......	......	......	98
......	4 24	166 85	......	......	500 00	......	......	......	76
......	24 75	538 55	......	......	3,600 00	......	......	......	235
......	32 90	1,316 11	......	4	6,000 00	......	......	......	282
......	20 53	382 70	......	......	2,400 00	......	......	......	150
......	7 58	378 46	......	......	2,500 00	200 00	......	......	80
......	30 90	597 70	......	8	690 00	......	......	......	228
......	21 95	771 83	......	......	3,000 00	......	......	......	250
......	21 82	809 46	......	......	3,000 00	......	......	......	153
......	39 09	1,029 66	......	......	3,500 00	......	......	......	281
......	26 07	601 23	......	......	7,000 00	......	$200 00	......	187
......	20 23	848 47	......	......	3,700 00	......	......	......	300
......	17 02	385 52	......	......	2,400 00	......	......	......	158
......	33 85	890 36	......	6	5,000 00	......	......	......	317
......	6 89	570 78	$447 50	......	2,800 00	......	......	......	80
......	28 92	744 57	......	......	3,000 00	......	......	......	258
......	25 39	853 05	......	......	5,950 00	......	......	......	412
......	64 97	600 47	1,500 00	......	7,000 00	1,160 00	700 00	......	485
......	22 44	1,071 99	......	......	6,000 00	......	......	......	257
......	23 30	590 14	......	8	1,000 00	......	......	......	187
......	41 77	1,371 28	......	......	5,400 00	......	......	......	303
......	32 56	1,428 14	......	......	5,500 00	......	......	......	374
......	26 33	1,508 06	......	4	6.500 00	550 00	......	......	458
......	33 57	774 85	......	......	5,000 00	......	......	......	244
......	$736 87	$22,638 11	$1,947 50	......	$110,740 00	$5,801 53	$900 00	......	$6,563

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of eight mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$5 20	$906 17	......	......	$6,600 00	......	......	......	336
......	36 89	1,462 53	......	......	6,000 00	......	......	......	390
......	41 91	1,653 18	......	......	4,000 00	......	......	......	275
......	10 35	1,146 87	......	......	2,500 00	......	......	......	274
......	32 22	1,437 93	......	3	4,050 00	......	......	......	212
......	18 79	2,088 28	......	......	5,600 00	$800 00	......	......	376
......	11 50	525 11	......	......	2,000 00	......	......	$2,500 00	199
......	9 85	654 83	......	......	1,800 00	......	......	......	214
......	28 80	1,111 49	......	......	6,000 00	......	......	......	242
......	21 81	1,775 82	......	......	3,800 00	......	......	......	279
......	86 05	3,284 24	......	......	5,400 00	......	......	......	431
......	24 59	2,311 24	$300 00	......	4,000 00	......	......	......	528
......	7 20	200 16	......	......	7,000 00	31 00	$516 22	......	81
......	17 00	1,647 45	......	1½	305 36	......	......	......	338
......	4 85	391 79	......	......	2,500 00	302 29	......	234 00	189
......	28 12	931 44	443 40	......	2,400 00	......	......	......	308
......	21 59	703 86	......	......	2,000 00	......	......	......	191
......	$407 72	$22,232 39	$743 40	......	$65,955 36	$1,133 29	$516 22	$2,734 00	4,863

LANCASTER

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Adamstown borough, .	$178,370 00	4	$660 00	5	$986 84	. . .	. . . . . .	. . .	. . .
Bart township, ...	792,259 00	. . .	. . . .	2¾	1,900 00	2.80	$1,731 30		
Brecknock township, .	580,146 00	. .	. . . . . .	3	2,044 35	3½	1,994 51	. . .	. . . . . .
Cærnarvon township, .	1,183,757 00	. . .	. . . . . .	1½	2,414 63	1½	1,775 64	. . .	. . . . . .
Cocalico, East twp., . .	968,061 00	. . .	. . . . . .	1½	3,309 27	3	2,904 18	. . .	. . . . .
Cocalico, West twp., .	1,435,594 00	. . .	. . . . . .	.88	1,901 80	1½	2,153 38	. . .	. . . . . .
Colerain township,. . .	875,711 00	. . .	. . . . . .	2.19	2,353 80	2	1,751 42	. . .	. . .
Columbia borough,. . .	2,793,920 00	5	14,658 02	3	10,796 76	. . .	. . . .	. . .	. . . . .
Conestoga township,. .	1,297,131 00	. . .	. . . . . .	2½	3,538 31	1½	2,009 42	. . .	. . .
Conoy township, ...	1,144,403 00	. . .	. . . . . .	3½	4,016 97	1½	1,430 50	. . .	. . . .
Clay township, ...	1,366,807 00	. . .	. . . . . .	½	1,137 47	1	1,366 80	. . .	. . .
Donegal, East, twp., .	2,884,233 00	. .	. . . . . .	2	6,687 47	1	2,884 23	. . .	. . . . . .
Donegal, West, twp., .	1,012,938 00	. . .	. . . . . .	1½	1,715 00	1½	1,519 41	. . .	$1,511 24
Drumore township, . .	1,533,568 00	. .	. . . . . .	2.60	4,300 00	2¼	3,270 32	. . .	. . . . .
Ephrata township,. . .	2,322 503 00	. . .	. . . . . .	¾	2,672 86	1½	3,483 75	. . .	. . . . .
Earl township, ...	2,775,962 00	. . .	. . . . . .	1¼	7,000 00	1⅛	3,050 62	. . .	. . . . .
Earl, East, township, .	2,151,456 00	. . .	. . . . . .	1½	3,290 00	. . .	2,182 34	. . .	. . . . .
Earl, West, township, .	2,017,768 00	. . .	. . . . . .	1	2,528 85	.70	1,485 12	. . .	. . . . .
Elizabeth township, . .	851,464 00	. . .	. . . . . .	1½	1,360 00	2	1,730 00	. . .	. . . . .
Elizabethtown bor., . .	323,030 00	1½	484 54	6	2,050 00	. . .	. . . . . .	. . .	. . . . .
Eden township,.	515,757 00	. . .	. . . . . .	1½	1,049 62	3	1,547 27	. . .	. . . . .
Fulton township,. . . .	977,539 00	. . .	. . . . . .	2	2,487 08	2	1,955 07	. . .	. . . . .
Hempfield, East, twp.,	2,558,859 00	. . .	. . . . . .	1¼	3,858 16	7	1,300 00	. . .	. . . . .
Hempfield, West, twp.,	3,093,343 00	. . .	. . . . . .	1⅓	4,983 77	. . .	2,510 72	. . .	. . . . .
Lampeter, East, twp.,	3,099,914 00	. . .	. . . . . .	1.70	4,800 00	.60	1,700 00	. . .	. . . . .
Lampeter, West, twp.,	1,827,423 00	. . .	. . . . . .	1½	3,230 13	1	1,827 43	. . .	. . . . .
Lancaster township, . .	1,313,325 00	. .	. . . . . .	3	3,315 01	1¼	1,196 94	. . .	. . . . .
Leacock, Upper, twp.,	2,765,542 00	. . .	. . . . .	1½	3,866 74	7	1,641 06	. . .	. . . . .
Leacock township,. . .	2,034,485 00	. . .	. . . . . .	1¼	3,102 45	.90	2,150 00	. . .	. . . . .
Little Britain twp., . .	919,413 00	. . .	. . . . .	2½	2,666 32	2	1,838 38	. . .	. . . . .
Martic township, . . .	706,000 00	. . .	. . . . . .	2½	2,318 36	3	2,177 42	. . .	. . . . .
Manor township, ...	5,320,457 00	. . .	. . . . . .	1¾	9,617 28	1	4,916 30	. . .	. . . . .
Mount Joy township, .	1,827,963 00	. . .	. . . . . .	1¾	3,840 93	1	1,827 92	. . .	. . . . .
Mount Joy borough, . .	450,262 00	7	3,378 75	7	3,151 83	. . .	. . . . . .	. . .	. . . . .
Marietta borough, . . .	497,727 00	7	3,648 82	5½	3,625 00	. . .	. . . . . .	. . .	. . . . .
Manheim township, . .	2,027,607 00	. . .	. . . . . .	1½	3,605 67	⅛	1,647 24	. . .	. . . . .
Manheim borough, . . .	538,300 00	5.30	3,400 00	3½	2,293 57	. . .	. . . . . .	. . .	. . . . .
Paradise township,. . .	1,677,978 00	. . .	. . . . . .	1½	3,075 97	1	1,677 97	. . .	. . . . .
Penn township,.	2,006,789 00	. . .	. . . . . .	2	4,523 57	1½	2,963 71	. . .	. . . . .
Pequea township, . . .	1,421,354 00	. . .	. . . . . .	1½	2,458 02	1½	2,116 97	. . .	. . . . .
Providence township, .	907,902 50	. . .	. . . . . .	2	2,167 30	2½	2,092 95	. . .	. . . . .
Rapho township, ...	3,473,938 00	. . .	. . . . . .	1¾	7,013 38	1	3,473 94	. . .	. . . . .
Salisbury township, . .	3,430,651 00	. . .	. . . . . .	1¼	4,288 00	1	3,430 00	. . .	. . . . .
Sadsbury township, . .	868,810 00	. . .	. . . . . .	3	3,095 43	3	2,606 43	. . .	. . . . .
Strasburg township,. .	1,849,865 00	. . .	. . . . . .	1.60	3,309 09	1½	2,689 66	. . .	. . . . .
Strasburg borough, . .	353,050 00	3	1,185 97	6	2,459 83	. . .	. . . . . .	. . .	. . . .
Warwick township, . .	2,552,398 00	. . .	. . . . . .	1	3,606 40	1	2,552 40	. . .	. . . . .
Washington borough,	159,940 00	2½	522 00	6	1,125 25	. . .	. . . . . .	. . .	. . . . .
Lancaster city, ...	11,629,000 00	6	71,751 47	3	51,112 38	. . .	. . . . . .	. . .	. . . . .
	$89,294,672 50	. . .	$99,689 57	. . .	$216,050 92	. . .	$88,562 72	. . .	$1,511 24

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of two and a half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$71 25	$410 42	......	......	$1,600 00	......	......	......	196
......	154 76	1,530 65	......	......	4,000 00	......	......	......	354
......	102 62	1,448 09	$350 00	......	3,175 00	......	......	......	473
......	237 20	2,959 39	......	......	7,500 00	......	......	......	540
......	240 03	2,569 04	......	......	7,500 00	......	......	......	668
......	532 54	3,588 98	......	......	7,200 00	......	......	......	639
......	146 43	2,189 28	......	......	9,000 00	......	......	......	436
......	335 00	6,987 85	......	......	65,000 00	$124,500 00	$142,250 00	......	2,415
......	375 28	3,084 64	......	......	10,000 00	......	......	......	584
......	245 96	2,733 88	895 00	......	12,200 00	......	......	......	555
......	382 10	3,175 42	......	......	5,500 00	......	......	......	654
......	1,326 10	7,210 58	......	......	15,000 00	......	......	......	919
......	338 64	2,525 15	......	......	2,900 00	......	......	......	358
......	431 58	3,620 35	......	......	9,000 00	......	......	......	797
......	851 04	5,806 26	......	......	10,400 00	......	......	......	931
......	1,357 00	6,063 85	2,800 00	1	20,000 00	......	......	......	926
......	784 26	4,094 88	......	......	10,000 00	......	......	......	722
......	836 58	5,432 54	......	......	10,125 00	......	......	......	554
......	291 03	1,919 84	......	......	3,000 00	......	......	......	283
......	183 98	799 30	5,500 00	......	13,000 00	......	9,098 35	......	258
......	65 28	1,289 39	......	......	4,000 00	......	......	......	276
......	310 59	2,443 85	......	......	7,200 00	......	......	......	532
......	1,441 05	6,397 15	......	......	20,000 00	......	......	......	780
......	1,172 22	7,729 86	......	......	33,000 00	......	......	......	935
......	2,261 87	6,516 06	1,026 00	......	10,000 00	......	......	......	625
......	1,315 68	4,568 56	......	......	7,200 00	......	......	......	489
......	1,143 32	2,707 67	......	......	6,000 00	......	......	......	227
......	1,304 63	5,528 68	......	......	8,000 00	......	......	......	572
......	1,167 76	8,428 48	1,300 00	1½	8,500 00	......	......	......	433
......	228 47	2,303 79	......	......	4,300 00	......	......	......	423
......	257 80	1,633 06	......	......	7,000 00	......	......	......	686
......	2,688 51	12,139 08	......	......	21,000 00	......	......	......	1,160
......	789 59	4,569 91	......	......	8,800 00	......	......	......	642
......	367 83	1,150 89	14,500 00	......	25,500 00	47,806 82	48,500 00	......	543
......	280 18	1,394 20	4,450 00	......	9,500 00	34,299 91	14,965 86	......	768
......	1,881 88	6,831 62	1,800 00	......	11,346 99	......	......	......	822
......	202 13	1,345 75	7,900 00	......	11,300 00	235 00	......	......	447
......	587 87	4,194 94	......	......	8,000 00	......	......	......	559
......	1,016 07	5,069 02	1,800 00	½	10,000 00	......	......	......	570
......	574 85	3,553 38	......	......	4,800 00	......	......	......	326
......	126 45	2,245 93	......	......	6,500 00	......	......	......	663
......	1,879 03	8,684 84	......	......	16,000 00	......	......	......	934
......	943 51	8,165 90	......	......	2,400 00	......	......	......	1,053
......	163 10	2,172 02	......	......	8,100 00	......	......	......	489
......	739 23	4,554 36	......	......	4,800 00	......	......	......	555
......	659 60	907 87	9,500 00	......	12,000 00	2,200 00	......	......	320
......	1,241 40	6,380 99	......	......	10,000 00	......	......	......	1,054
......	12 66	392 09	......	......	1,000 00	......	......	$3,000 00	220
$30,000 00	3,178 32	28,497 83	33,000 00	......	$145,000 00	$662,512 02	$568,000 00	......	6,988
$30,000 00	$37,224 30	$216,920 31	$84,821 00	......	$657,346 99	$871,553 75	$782,814 22	$3,000 00	37,353

LAWRENCE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
New Castle, ...	$992,774 00	. . .	*	10	$12,158 74	. . .	. . . . . .	. . .	. . . . .
Big Beaver township, . .	165,847 00	. . .	. . . . . .	11	2,000 00	8	$1.334 00	. . .	. . . . .
Hickory township, . . .	224,800 00	. . .	. . . . . .	5	1,124 64	10	1,915 00	1½	$336 00
Little Beaver township,	241,234 00	. . .	. . . . . .	8	2,342 87	8	1,929 87	. . .	. . . . .
Mahoning township, . .	278,000 00	. . .	. . . . . .	8	2,524 00	6	1,668 00	4½	1,272 00
Neshannock township, .	167,000 00	. . .	. . . . . .	6	1,215 00	6	1,000 00	5	835 00
North Beaver township,	427,784 00	. . .	. . . . . .	6	3,028 90	8¼	3,582 29	3	1.283 35
Perry township, ...	110,300 00	. . .	. . . . . .	9	1,900 00	10	900 00	. . .	None.
Plain Grove township, .	133 333 33	. . .	. . . . . .	6½	1,010 67	1½	200 00	1½	200 00
Pulaski township, ...	329,647 00	. . .	. . . . . .	7	2,787 53	5	1,648 23	. . .	. . . . .
Scott township, ...	180,000 00	. . .	. . . . . .	5	1,079 58	7	1,258 28	1½	264 48
Shenango township, . .	228,587 00	. . .	. . . . . .	7	2,471 76	10	2,960 45	10	2,282 45
Slippery Rock township,	241,372 00	. . .	. . . . . .	7	2,165 60	8	1,930 97	. . .	. . . .
Taylor township, ...	123,898 00	. . .	. . . . . .	7	1,080 29	10	1,238 98	. . .	. . . .
Union township, ...	226,892 00	. . .	. . . . . .	8	2,189 27	5	1,135 19	10	2,268 92
Washington township, .	141,388 00	. .	. . . . . .	5	881 94	9	1,272 49	. . .	. . . . .
Wayne township, ...	134,000 00	. . .	. . . . . .	9	933 24	10	1,340 00	4	536 00
Wilmington township, .	227,427 50	. . .	. . . . . .	7	1,927 82	8	1,819 42	. . .	. . . . .
Wilmington borough, .	60,556 00	. . .	*	13¼	993 37	. . .	. . . . . .	. . .	. . . . .
Wampum borough, . . .	52,093 00	. . .	*	5	432 46	. . .	. . . . . .	. . .	. . . . .
Total, ...	$4,687,932 83	. . .	. . . . . .	. . .	$44,247 68	. . .	$27,133 17	. . .	$9,278 2

* Not reported.

LEBANON

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Annville, North, twp., .	$582,144 00	. . .	. . . . . .	4½	$3,144 65	4	$2.328 57	. . .	. . . . .
Annville, South, twp., .	806,986 00	. . .	. . . . . .	3	2,900 96	3	2,420 95	. . .	. . . . .
Bethel township, ...	686,484 00	. . .	. . . . . .	2¼	2,250 61	4	2,649 92	. . .	. . . . .
Cold Spring township, .	21,422 00	. . .	*	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Cornwall township, . . .	1,357,502 00	. . .	. . . . . .	3	4,072 51	3 4-10	4,537 50	. . .	. . . . .
Hanover, East, township,	496,831 00	. . .	. . . . . .	3½	2,976 18	4½	2,130 20	. . .	. . . . .
Heidelberg township, . .	712,897 00	. . .	. . . . . .	3½	3,920 93	3½	2,154 84	. . .	. . . . .
Jackson township, . . .	1,125,314 00	. . .	. . . . . .	3½	4,927 59	2	2,250 62	. . .	. . . . .
Jonestown borough, . .	117,760 00	5	$618 00	5	650 00	. . .	. . . . . .	. . .	. . . . .
Lebanon borough, ...	1,450,256 00	10	14,189 44	12	17,705 90	. . .	. . . . . .	. . .	. . . . .
Lebanon, North, twp., .	819,042 00	. . .	. . . . . .	3	3,133 13	3	2,457 13	. . .	. . . . .
Lebanon, South, twp., .	973,038 00	. . .	. . . . . .	1¾	2,171 78	3	2,919 11	. . .	. . . . .
Londonderry township,	1,030,482 00	. . .	. . . . . .	2	2,106 08	2	1,813 07	. . .	. . . . .
Mill Creek township, . .	699,264 00	. . .	. . . . . .	5	3,986 32	3½	2,447 42	. . .	. . . . .
Swatara township, . . .	376,853 00	. . .	. . . . . .	4½	1,695 84	4½	1,695 84	. . .	. . . . .
Union township, ...	330,956 00	. . .	. . . . . .	5	1,940 08	5½	1,736 17	. . .	. . . . .
Total, ...	11,587,231 00	. . .	$14,807 44	. . .	$57,582 56	. . .	$31,541 34	. . .	. . . . .

* No report.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City, borough, or township debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$175 53	$9,927 74	. . . . . .	. . . . . .	$20,000 00	. . . . . .	. . . . . .	. . . . .	2,231
. . . . . .	38 18	1,608 19	. . . . . .	. . . . . .	1,300 00	. . . . . .	. . . . . .	. . . . .	360
. . . . . .	17 90	1,853 79	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	267
. . . . . .	82 47	2,412 34	. . . . . .	. . . . . .	6,300 00	. . . . . .	. . . . . .	. . . . .	413
. . . . . .	34 02	2,761 99	. . . . . .	. . . . . .	1,000 00	$100 00	. . . . . .	. . . . .	461
. . . . . .	5 68	1,721 27	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	279
. . . . . .	70 57	4,307 28	. . . . . .	. . . . . .	11,000 00	. . . . . .	. . . . . .	. . . . .	589
. . . . . .	3 75	1,092 99	$638 00	9	5,800 00	. . . . . .	. . . . . .	. . . . .	258
. . . . . .	9 80	1,345 06	. . . . . .	. . . . . .	2,800 00	. . . . . .	. . . . . .	. . . . .	196
. . . . . .	52 97	3,296 47	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	480
. . . . . .	8 68	1,776 88	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	265
. . . . . .	19 60	2,285 87	. . . . . .	2	7,500 00	. . . . . .	. . . . . .	. . . . .	542
. . . . . .	12 00	2,413 72	. . . . . .	. . . . . .	7,000 00	. . . . . .	. . . . . .	. . . . .	476
. . . . . .	11 80	1,238 98	. . . . . .	. . . . . .	3,000 00	. . . . . .	. . . . . .	. . . . .	213
. . . . . .	14 08	2,272 06	. . . . . .	. . . . . .	7,500 00	2,500 00	. . . . . .	. . . . .	547
. . . . . .	10 20	1,420 86	. . . . . .	. . . . . .	2,600 00	. . . . . .	. . . . . .	. . . . .	175
. . . . . .	17 30	1,372 96	. . . . . .	. . . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	343
. . . . . .	23 39	2,313 07	. . . . . .	½	1,300 00	. . . . . .	. . . . . .	. . . . .	290
. . . . . .	23 23	605 56	. . . . . .	. . . . . .	2,000 00	. . . . . .	. . . . . .	. . . . .	191
									8,748
. . . . . .	14 25	520 93	. . . . . .	. . . . . .	1,000 00	. . . . . .	. . . . . .	. . . . .	172
. . . . . .	$615 50	$46,548 02	$638 00	. . . . . .	$109,600 00	$350 00	. . . . . .	. . . . .	8,920

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of five mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$493 68	$2,910 72	. . . . . .	. . . . . .	$10,000 00	. . . . . .	. . . . . .	. . . . .	525
. . . . . .	584 55	4,034 93	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	480
. . . . . .	333 04	3,438 50	. . . . . .	. . . . . .	12,000 00	. . . . . .	. . . . . .	. . . . .	560
. . . . . .	4 80	107 11	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . .	9
. . . . . .	441 82	7,314 63	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	825
. . . . . .	190 66	2,437 28	. . . . . .	2½	11,000 00	. . . . . .	. . . . . .	. . . . .	412
. . . . . .	351 68	3,361 93	. . . . . .	2	12,600 00	. . . . . .	. . . . . .	. . . . .	641
. . . . . .	700 17	5,626 57	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	989
. . . . . .	126 21	617 83	. . . . . .	. . . . . .	2,400 00	$2,262 28	. . . . . .	. . . . .	242
$14,189 44	632 83	7,251 58	$25,125 31	. . . .	62,500	†250,000 00 48,700 00	$8,000 00	. . . . .	1,951
. . . . . .	418 74	4,095 21	. . . . . .	. . . . . .	7,200 00	. . . . . .	. . . . . .	. . . . .	676
. . . . . .	422 25	4,865 19	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	469
. . . . . .	469 18	4,868 06	. . . . . .	3	12,330 70	. . . . . .	. . . . . .	. . . . .	556
. . . . . .	277 67	3,496 32	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	490
. . . . . .	145 53	1,916 66	. . . . . .	. . . . . .	7,000 00	50 00	. . . . . .	. . . . .	260
. . . . . .	166 22	1,654 78	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	371
$14,189 44	$5,959 12	$57,997 00	$25,125 31	. . . . . .	$186,030 70	$301,012 28	$8,000 00	. . . . .	9,156

† Water department debt.

LEHIGH

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Allentown,	$9,150,720 00	3½	$32,072 34	5½	$50,328 96	. . .	. . . . . .	. . .	. . . . .
Emaus borough,	382,325 00	. . .	*	3½	1,608 14	. . .	. . . . . .	. . .	. . . . .
Macungie borough,	427,576 04	1½	462 55	2	786 98	. . .	. . . . . .	. . .	. . . . .
Coplay borough,	416,405 00	2	832 00	1½	800 68	. . .	. . . . . .	. . .	. . . . .
Catasauqua borough,	1,128,874 00	5	5,644 37	7	8,025 33	. . .	. . . . . .	. . .	. . . . .
Slatington borough,	609,770 00	3½	1,989 07	3	1,778 27	. . .	. . . . . .	. . .	. . . . .
Upper Saucon township,	2,535.994 00	. . .	. . . . . .	1½	2,065 54	. . .	. . . . . .	. . .	. . . . .
Upper Milford township,	1,395,160 00	. . .	. . . . . .	1	1,954 60	1½	$2,252 97	. . .	. . . . .
Lower Milford township,	1,181,080 00	. . .	. . . . . .	1	1,481 37	1.7	1,729 64	. . .	. . . . .
Upper Macungie twp.,	2,381,284 00	. . .	. . . . . .	2½	7,063 20	1	2,381 28	. . .	. . . . .
Lower Macungie twp.,	2,460,209 00	. . .	. . . . . .	1	3,307 20	1	2,460 21	. . .	. . . . .
North White Hall twp.,	1,801,454 00	. . .	. . . . . .	2¼	4,455 93	1¼	2,400 00	. . .	. . . . .
South White Hall twp.,	1,556,352 00	. . .	. . . . . .	1	2,276 35	2	3,112 70	. . .	. . . . .
White Hall township,	1,867,905 00	. . .	. . . . . .	2	4,684 81	2	3,735 81	. . .	. . . . .
Hanover township,	1,088,207 00	. . .	. . . . . .	1½	2,167 00	2¼	2,500 00	. . .	. . . . .
Heidelberg township,	722,700 00	. . .	. . . . . .	1¾	1,703 71	2	1,445 40	. . .	. . . . .
Salisbury township,	1,835,427 00	. . .	. . . . . .	2	4,632 85	1	1,835 43	. . .	. . . . .
Washington township,	1,049,293 00	. . .	. . . . . .	2½	3,174 37	2	2,127 96	. . .	. . . . .
Low Hill township,	500,411 00	. . .	. . . . . .	½	918 00	½	603 92	. . .	. . . . .
Lynn township,	1,467,298 00	. . .	. . . . . .	1½	2,735 51	2½	3,530 10	. . .	. . . . .
Weisenberg township,	909,764 00	. . .	. . . . . .	2	2,304 53	2	1,819 52	. . .	. . . . .
Total,	34,868,208 04	. . .	$41,000 33	. . .	$108,194 33	. . .	$31,934 94	. . .	. . . . .

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of three mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
$32,165 66	$2,583 96	$29,292 71	$410,969 08	. . . . . .	$350,000	$475,327 54	$265,590 30	. . . . .	5,391
. . . . . .	146 12	1,146 12	. . . . . .	. . . . . .	4,000	. . . . . .	. . . . . .	. . . . .	270
. . . . . .	292 64	940 61	456 00	. . . . . .	4,000	. . . . . .	. . . . . .	. . . . .	223
. . . . . .	53 85	1,170 77	. . . . . .	. . . . . .	2,000	. . . . . .	. . . . . .	. . . . .	212
. . . . . .	301 85	3,686 49	15,690 00	. . . . . .	67,000	32,909 00	22,000 00	. . . . .	712
. . . . . .	187 72	1,679 02	5,350 00	1	6,000	7,345 00	600 00	$1,143	454
. . . . . .	634 70	7,153 39	. . . . . .	. . . . . .	10,500	. . . . . .	. . . . . .	. . . . .	1,142
. . . . . .	269 14	4,588 80	. . . . . .	. . . . . .	15,000	. . . . . .	. . . . . .	. . . . .	590
. . . . . .	305 79	3,309 62	. . . . . .	. . . . . .	6,800	. . . . . .	. . . . . .	. . . . .	398
. . . . . .	309 51	7,143 84	. . . . . .	. . . . .	19,000	. . . . . .	. . . . . .	. . . . .	847
. . . . . .	386 65	7,380 63	. . . . . .	. . . . . .	15,000	. . . . . .	. . . . . .	. . . .	1,050
. . . . . .	769 48	4,827 86	1,100 00	. . . . .	17,000	. . . . . .	. . . . . .	. . . . .	950
. . . . . .	518 27	4,669 06	. . . . . .	. . . . . .	12,000	. . . . . .	. . . . . .	. . . . .	720
. . . . . .	394 84	5,933 96	. . . . . .	. . . . . .	25,000	. . . . . .	. . . . . .	. . . . .	949
. . . . . .	347 76	3,774 82	. . . . . .	. . . . . .	15,000	. . . . . .	. . . . . .	. . . . .	1,131
. . . . . .	228 58	2,168 10	. . . . . .	. . . . . .	8,000	. . . . . .	. . . . . .	. . . . .	439
. . . . . .	467 67	5,559 13	. . . . . .	. . . . . .	14,000	. . . . . .	. . . . . .	. . . . .	962
. . . . . .	376 63	3,102 57	. . . . . .	. . . . . .	10,000	. . . . . .	. . . . . .	. . . . .	679
. . . . . .	104 21	1,450 47	. . . . .	. . . . . .	4,133	. . . . . .	. . . . . .	. . . . .	241
. . . . . .	257 58	4,195 09	. . . . . .	. . . . . .	9,600	135 00	. . . . . .	. . . . .	685
. . . . . .	115 50	2,729 29	. . . . . .	. . . . . .	11,000	. . . . . .	. . . . . .	. . . . .	485
$32,165 66	$9,052 45	$105,903 30	$433,565 08	. . . . . .	$625,033	$515,716 54	$288,190 30	$1,143	18,540

LUZERNE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Ashley borough,	$276,000 00	5	$1,380 00	13	$7,402 52	. . .	. . . . . .	. . .	. . . . .
Blakely borough,	127,555 00	. . .	1,600 00	. . .	1,882 00	. . .	. . . . . .	. . .	. . . . .
Benton township,	247,710 00	4	. . . . . .	4	1,212 90	4	$990 84	2	$495 42
Black Creek township,	204,555 00	. . .	. . . . . .	5	1,022 77	7	1,427 88	. . .	. . . . .
Bear Creek township,	86,138 00	. . .	No report	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Butler township,	265,760 00	. . .	. . . . . .	5	1,328 80	10	2,657 60	. . .	. . . . .
Buck township,	58,077 00	. . .	. . . . . .	10	608 00	9	406 00	. . .	. . . . .
Conyngham township,	124 081 00	. . .	No report	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Carbondale City,	700,000 00	15	10,922 00	11	9,019 98	. . .	. . . . . .	9	6,300 00
Carbondale township,	164,482 00	. . .	. . . . . .	13	2,533 27	10	1,644 82	. . .	. . . . .
Clifton township,	54,283 00	. . .	. . . . . .	6	3,337 98	15	814 74	. . .	. . . . .
Covington township,	121,543 00	. . .	. . . . . .	12	1,710 52	10	1,215 43	. . .	. . . . .
Dallas township,	191,540 00	. . .	. . . . . .	7	1,586 70	10	1,915 40	3	574 62
Denison township,	91,583 00	. . .	. . . . . .	10	950 15	5	407 80	. . .	. . . . .
Dorrance township,	92,964 00	. . .	. . . . . .	10	1,067 64	12	1,115 56	. . .	. . . . .
Dickson City borough,	181,814 00	. . .	No report	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Dunmore borough,	434,826 00	10	4,348 26	20	8,819 24	5	2,174 13	. . .	. . . . .
Exeter township,	264,501 00	. . .	. . . . . .	3	1,700 00	7	1,851 00	. . .	. . . . .
Fairmount township,	172,336 00	. . .	. . . . . .	6	1,276 00	10	1,723 36	. . .	. . . . .
Fell township,	88,581 66	. . .	. . . . . .	7½	680 55	15	1,328 71	6	531 49
Foster township,	366,248 00	. . .	. . . . . .	10	4,647 48	10	3,662 48	. . .	. . . . .
Franklin township,	112,000 00	. . .	. . . . . .	3	447 00	10	996 00	. . .	. . . . .
Gouldsboro' borough,	26,400 00	8	227 20	10	264 00	. . .	. . . . . .	. . .	. . . . .
Greenfield township,	191,062 00	. . .	. . . . . .	5	1,135 49	10	1,910 62	4	764 24
Hanover township,	670.107 00	. . .	. . . . . .	3	2,500 00	4	3,280 00	2	1,234 00
Hazle township,	1,074.492 00	. . .	. . . . . .	13	16,461 40	3	3,223 47	. . .	. . . . .
Hazleton borough,	741,994 00	18	13,355 88	16	12,061 34	5	3,853 49	. . .	. . . . .
Hollenback township,	110,816 00	. . .	. . . . . .	4	668 26	10	1,108 16	. . .	. . . . .
Huntingdon township,	267,017 00	. . .	. . . . . .	4	1,545 00	10	2,670 17	1¼	333 23
Jackson township,	111,046 00	. . .	. . . . . .	5	765 89	10	1,110 46	5	555 73
Jefferson township,	86,000 00	. . .	. . . . . .	4	344 00	10	860 00	7	602 00
Jenkins township,	336,108 00	. . .	. . . . . .	23	7,500 00	8	2,800 00	8	2,600 00
Jeddo borough,	15,500 00	6	90 00	15	225 00	. . .	. . . . . .	. . .	. . . . .
Jermyn borough,	86,924 00	7	791 30	15	1,695 66	. . .	. . . . . .	. . .	. . . . .
Kingston borough,	221,259 88	5	1,108 32	10	2,244 00	. . .	. . . . . .	2	433 78
Kingston township,	807,788 00	. . .	. . . . . .	10	8,716 21	10	8,077 88	2	1,639 00
Lackawanna township,	625,668 00	. . .	. . . . . .	10	6,256 68	6	3,754 00	10	6,256 68
Lehman township,	136,126 00	. . .	. . . . . .	8	1,239 12	10	1,335 41	2	267 00
Lake township,	78,638 00	. . .	. . . . . .	5	474 49	10	626 92	. . .	. . . . .
Madison township,	135,600 00	. . .	. . . . . .	8	1,180 00	10	1,356 00	2	270 00
New Columbus borough,	35,400 00	3	110 00	2	144 00	. . .	. . . . . .	. . .	. . . . .
Nanticoke borough,	395,000 00	5⅜	3,253 94	8	3,527 00	. . .	. . . . . .	2	790 00
Nescopeck township,	221,071 00	. . .	. . . . . .	3½	913 41	4	1,081 72	2½	546 00
Newton township,	213,000 00	. . .	. . . . . .	3	900 00	8	1,704 00	4	852 00
North Abington towns'p,	373,134 00	. . .	. . . . . .	5	1,700 63	4	1,092 53	3	838 18
Newport township,	390,000 00	. . .	. . . . . .	2	988 00	2	780 00	1	390 00
Olyphant borough,	163,947 00	15	819 73	18	2,951 00	. . .	. . . . . .	10	1,639 47
Old Forge township,	196,456 00	. . .	. . . . . .	10	2,439 91	8	1,571 64	8	1,571 64
Plymouth borough,	744,833 00	. . .	. . . . . .	8	6,682 00	6	4,668 99	2	1,489 00
Plymouth township,	492,617 00	5	2,892 23	12	6,383 42	. . .	. . . . . .	2	985 51
Plains township,	659,119 00	. . .	. . . . . .	10	10,437 33	10	6,951 19	2	1,390 24
Pleasant Valley borough,	147,115 00	5	735 57	16	2,353 84	. . .	. . . . . .	8	1,176 92
Pittston township,	544,689 00	. . .	. . . . . .	7	4,913 81	6	3,268 13	8	4,357 51
Pittston borough,	623,130 00	6	3,738 00	18	12,900 00	. . .	. . . . . .	2	1,262 00
Ransom township,	113,451 00	. . .	. . . . . .	5	755 45	7	821 14	5	575 20
Ross township,	98,915 00	. . .	. . . . . .	7	702 95	10	989 15	4	395 66
Roaring Brook township.	75,866 00	. . .	. . . . . .	9	1,141 44	5	379 33	5	379 33
Salem township,	265,418 00	. . .	. . . . . .	10	2,250 00	7	1,858 00	3½	876 00
S. Abington township,	205,143 00	. . .	. . . . . .	5	1,269 00	8¼	1,694 00	4	821 87
Scott township,	255,105 00	. . .	. . . . . .	6	1,813 86	10	2,551 00	3	788 65
Slocum township,	37,080 00	. . .	. . . . . .	10	382 94	10	360 00	. . .	. . . . .
Spring Brook township,	87,163 00	. . .	. . . . . .	5	501 39	10	871 63	3	261 48
Shickshinny borough,	90,800 00	5	450 00	2	1,191 00	. . .	. . . . . .	. . .	. . . . .
Sugar Notch borough,	164,430 00	5	823 10	12	1,908 59	2	329 48	. . .	. . . . .
Sugarloaf township,	259,875 00	. . .	. . . . . .	. . .	1,994 80	8	2,000 00	3	750 00
Union township,	84,914 00	. . .	. . . . . .	6	509 48	10	849 14	7	594 40
Wright township,	63,000 00	. . .	. . . . . .	13	1,255 21	10	600 00	5	250 00
West Pittston borough,	336,391 00	10	3,363 39	20	6,884 32	. . .	. . . . . .	5	1,318 00
Waverly borough,	45,000 00	9	405 00	8	400 00	. . .	. . . . . .	. . .	. . . . .
White Haven borough,	171,632 00	14	2,402 84	13	2,231 21	. . .	. . . . . .	5	858 16
North Wilkesbarre twp.,	213,861 00	. . .	. . . . . .	13	3,204 19	8	1,710 88	. . .	. . . . .
South Wilkesbarre twp.,	144,865 00	. . .	. . . . . .	10	1,498 00	8	1,158 92	2	289 73
Scranton city,	10,800,000 00	. . .	90,000 00	9	92,000 00	. . .	. . . . . .	3	31,483 00
Wilkesbarre city,	3,755,186 00	20	75,103 72	. . .	59,983 38	. . .	. . . . . .	2	7,601 14
Total,	32.617.029 54	. . .	$217.920 48	. . .	$355,621 58	. . .	$97,589 21	. . .	$87,388 28

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of seven mills.	Amount of school debt, city or borough.	Amount of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$6 00	$1,728 86	$8,200 00	......	$22,000 00	$1,000 00	$3,352 00	......	483
......	70 75	1,029 14	5,000 00	......	3,000 00	22,000 00	......	......	299
......	4 05	1,733 98	......	......	4,500 00	......	......	......	394
......	5 95	1,714 91	......	......	4,800 00	......	......	......	286
......	......	......	......	......	......	......	......	......	135
......	33 65	1,838 62	......	......	8,000 00	278 00	......	......	565
......	1 00	406 53	......	5	2,000 00	100 00	......	......	155
......	18 00	868 57	......	......	......	......	......	......	161
......	91 40	Exempt.	......	......	28,000 00	5,000 00	15,000 00	......	1,835
......	1 50	1,151 38	......	......	4,000 00	......	......	......	395
......	2 00	379 98	......	......	2,000 00	......	......	......	81
......	5 00	850 80	......	......	5,000 00	......	......	......	252
......	27 84	1,321 24	......	3	2,000 00	......	......	......	365
......	......	641 10	......	......	6,000 00	......	......	......	347
......	3 30	650 75	......	......	4,000 00	......	......	......	138
......	......	1,272 70	......	......	......	......	......	......	241
......	21 45	3,043 78	3,602 00	......	12,000 00	3,500 00	250 00	......	1,304
......	22 50	1,742 15	......	......	2,000 00	......	......	......	355
......	1 20	1,206 35	......	......	2,400 00	530 00	......	......	275
......	9 70	1,154 87	......	......	2,500 00	66 00	......	......	136
......	......	2,563 74	......	......	9,000 00	......	......	......	985
......	5 68	801 76	......	......	2,500 00	......	......	......	174
......	20	188 28	100 00	......	1,100 00	......	......	......	105
......	7 30	1,340 79	......	......	3,600 00	......	......	......	265
......	4 80	4,319 04	......	......	2,000 00	......	......	......	424
......	17 50	7,521 44	......	......	30,000 00	......	......	......	2,493
......	106 45	5,184 40	11,600 00	......	50,000 00	32,000 00	18,502 73	......	2,016
......	39 25	775 71	......	......	8,000 00	......	......	......	225
......	36 45	1,862 05	......	......	5,500 00	......	......	......	493
......	5 70	770 34	......	......	1,500 00	......	......	......	205
......	......	759 49	......	......	2,000 00	......	......	......	224
......	3 35	2,352 76	......	10	8,000 00	4,500 00	......	......	544
......	3 65	158 90	......	......	500 00	......	......	......	76
......	50	791 31	......	......	6,000 00	800 00	......	......	456
......	33 45	1,504 27	......	......	2,500 00	......	......	......	300
......	147 82	5,552 90	......	4	22,600 00	600 00	......	$400 00	1,645
......	......	4,391 33	1,636 13	......	2,502 67	12,000 00	......	......	988
......	1 90	934 79	......	......	2,500 00	......	......	......	252
......	15 00	614 64	......	......	1,650 00	......	......	......	268
......	2 90	1,089 54	......	......	2,500 00	......	......	......	375
......	17 43	298 81	......	......	800 00	......	......	......	85
......	35 60	2,765 43	7,700 00	......	16,000 00	2,500 00	2,000 00	......	1,058
......	31 10	1,528 44	159 13	......	1,500 00	......	......	......	329
......	19 02	1,491 96	......	......	4,400 00	100 00	......	......	329
......	75 16	1,911 24	224 00	......	3,800 00	......	......	......	488
......	......	3,068 62	......	......	2,500 00	......	......	......	529
......	......	1,147 63	......	......	1,500 00	......	500 00		
......	......	1,375 19	......	2	4,200 00	......	......	......	416
......	17 50	3,448 32	......	......	14,630 00	......	......	......	1,536
......	......	5,213 83	8,831 90	4	24,000 00	9,599 73	2,800 00	......	1,56
......	61 80	4,865 83	2,000 00	5	30,000 00	3,500 00	......	......	1,423
......	......	1,029 80	......	3	6,000 00	......	100 00	......	459
......	......	3,758 57	......	1	12,000 00	......	......	......	2,289
......	26 90	5,363 45	......	6	15,000 00	......	......	......	1,365
......	12 60	794 16	......	......	1,500 00	......	......	......	237
......	7 00	857 47	752 45	......	5,000 00	620 00	......	1,765 56	336
......	5 40	574 96	......	3	1,500 00	500 00	......	......	254
......	23 10	1,855 12	1,400 00	3	7,300 00	......	......	......	407
......	34 93	1,431 67	......	......	4,500 00	......	......	......	356
......	16 05	1,695 29	......	......	11,000 00	......	......	......	407
......	......	259 56	......	......	900 00	......	......	......	118
......	......	626 43	......	......	1,200 00	1,587 46	......	......	201
......	35 10	816 79	......	......	3,000 00	......	......	......	349
......	4 00	1,151 01	......	......	5,000 00	583 27	894 50	......	319
......	13 25	2,046 27	......	......	8,000 00	......	......	......	497
......	2 25	1,000 04	......	3½	3,500 00	529 25	......	3,143 00	410
......	......	468 32	250 00	5	2,000 00	......	......	......	27
......	128 80	2,308 66	17,200 00	......	30,000 00	10,550 00	4,000 00	......	800
......	27 40	296 26	......	......	2,800 00	200 00	......	136 00	141
......	64 65	1,201 42	......	......	5,000 00	6,400 00	6,500 00	......	485
......	......	1,696 32	......	......	25,000 00	......	......	......	424
......	......	1,014 06	4,600 00	8	2,000 00	......	......	......	158
......	......	......	......	......	324,000 00	367,000 00	164,000 00	. . . No	report
......	597 40	26,273 92	......	......	87,243 51	144,988 37	......	......	7,076
......	$2,023 13	$154,803 81	$73,255 61	......	$944,926 18	$631,032 08	$217,899 23	$5,444 56	47,690

LYCOMING

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Armstrong township, . .	$663.502 00	. . .	. . . .	12	$8,474 02	2	$1,327 00	. . .	. . . . .
Anthony township, . . .	136,922 00	. . .	. . . .	13	1,924 98	6	831 53	. . .	. . . . .
Brown township, ...	97,000 00	. . .	. . . .	6	582 00	6	582 00	3	$291 00
Bastress township, . . .	29,632 00	. . .	. . . .	5	171 00	12	355 58	4	117 92
Brady township, ...	95,700 00	. . .	. . . .	13	1,365 10	8	765 60	. . .	. . . . .
Clinton township, ...	491,000 00	. . .	. . . .	3	1,473 00	4	1,964 00	1½	736 50
Cogan House township,	155,585 00	. . .	. . . .	7	1,089 00	4⅛	757 26	2¾	450 22
Cummings township, . .	45,000 00	. . .	. . . .	4	180 00	5	225 00	. . .	. . . . .
Cascade township, ...	28,933 00	. . .	. . . .	13	349 13	40	1,074 24	. . .	. . . . .
Eldred township, ...	201,433 00	. . .	. . . .	11	2,402 76	4	805 73	. . .	. . . . .
Fairfield township, . . .	280,512 00	. . .	. . . .	3⅔	1,075 00	2	561 02	. . .	. . . . .
Franklin township, . . .	48,380 00	. .	. . . .	13	1,414 00	10	483 80	. . .	. . . . .
Gamble township, ...	116,000 00	. . .	. . . .	6	720 80	8	928 00	1	116 00
Hepburn township, . . .	225,000 00	. . .	. . . .	. . .	1,300 00	. . .	800 00	. . .	. . . . .
Hughesville borough, . .	284,750 00	. . .	None.	5	1,563 00	. . .	. . . .	2	569 00
Jersey Shore borough, .	469,900 00	3	$1,486 70	2	1,225 85	. . .	. . . .	1½	705 37
Jackson township, . . .	92,896 00	. . .	. . . .	5	743 04	8	746 00	. . .	. . . . .
Jordan township, ...	46,000 00	. . .	. . . .	6	1,007 71	5	412 00	. . .	. . . . .
Loyalsock township, . .	737,251 00	. . .	. . . .	1¼	1,258 48	2½	2,516 96	2½	2,516 96
Lewis township, ...	255,128 00	. . .	. . . .	3	858 26	10	2.685 62	2½	637 82
Limestone township. . .	529,109 00	. . .	. . . .	3	1,840 71	3	1,587 33	1	529 11
Lycoming township, . .	192,309 00	. . .	. . . .	4	768 28	4	769 36	1½	288 40
McIntyre township, . . .	351,513 00	. . .	. . . .	8	3,278 10	5	1,757 56	. .	. . . . .
McHenry township, . . .	89,731 00	. . .	. . . .	3	490 00	16	6,838 00	3	269 00
Mifflin township, ...	150,860 00	. . .	. . . .	13	2,255 18	5	754 30	. . .	. . . . .
Muncy township, ...	469,743 00	. . .	. . . .	9	4,500 69	4	1,878 97	. . .	. . . . .
Muncy Creek township,	719,332 00	. . .	. . . .	1½	1,462 70	1¾	1,258 83	2	1.438 66
Muncy borough, ...	520,000 00	6	3,120 00	4	3,889 19	. . .	. . . . .	2	1,040 00
Moreland township, . .	182,755 00	. . .	. . . .	3	731 00	6	1,096 00	. . .	. . . . .
Montoursville borough,	500,000 00	2	990 83	4½	2,268 60	. . .	. . . .	1	500 00
Nippenose township, . .	280,823 00	. . .	. . . .	5	1,564 11	2	561 64	. . .	. . . . .
Old Lycoming township,	174,700 00	. . .	. . . .	2½	536 40	3½	611 45	3	524 10
Picture Rocks borough,	70.283 00	3	210 85	4½	325 00	. . .	. . . .	2	140 00
Piatt township, ...	197,361 00	. . .	. . . .	12	2,140 32	2	394 72	. . .	. . . . .
Pine township, ...	116,000 00	. . .	. . . .	5	580 00	8	928 00	. . .	. . . . .
Penn township, ...	166.810 00	. . .	. . . .	4	667 24	4	667 24	1¼	208 51
Plunkett's Creek twp, .	219,012 00	. . .	. . . .	7 6-10	1,664 49	2	438 02	. . .	. . . . .
Porter township, ...	334,000 00	. . .	. . . .	1½	501 00	1½	501 00	1½	501 00
Shrewsbury township. .	104.000 00	. . .	. . . .	5	514 56	3⅓	346 00	. .	. . . .
Susquehanna township,	140,703 00	. . .	. . . .	7	1,081 92	4	562 81	. . .	. . . . .
Upper Fairfield twp, . .	190,000 00	. . .	. . . .	5	950 00	2	380 00	¾	142 50
Watson township, ...	73,580 00	. . .	. . . .	5	367 00	10	734 00	5	367 00
Wolf township, ...	349.359 00	. .	. . . .	2½	1,182 87	3	1,057 14	1	352 38
Washington township, .	313,285 00	. . .	. . . .	3	1,200 00	3	950 00	2	626 00
Woodward township, . .	273,137 00	. . .	. . . .	3½	1,083 50	2	546 27	. . .	. . . . .
Williamsport, ...	7,500,000 00	6½	48.750 00	5	37,500 00	2	15,000 00	. . .	. . . . .
Total, ...	18,708,929 00	. . .	$54,558 38	. . .	$102,519 99	. . .	$57,439 98	. . .	$13,067 45

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of three mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$47 17	$1,990 50	......	......	$5,000 00	......	......	.....	512
......	48 96	410 76	......	......	3,500 00	......	......	.....	145
......	21 33	83 55	......	......	2,000 00	......	......	.....	91
......	10 63	99 90	......	......	750 00	......	......	.....	73
......	22 40	287 10	......	......	1,400 00	......	......	.....	121
......	77 50	1,438 35	......	......	14,000 00	......	......	.....	455
......	51 12	486 62	$863 45	.....	3,500 00	$536 45	......	.....	233
......	24 75	165 26	......	......	3,000 00	157 00	......	.....	96
......	25 71	192 38	......	......	550 00	$2,000 00	......	.....	126
......	42 33	604 29	......	......	3,500 00	......	......	.....	187
......	56 51	810 98	200 00	......	2,800 00	......	......	.....	149
......	56 47	400 53	386 68	13	2,000 00	......	......	.....	262
......	40 37	315 50	......	......	1,100 00	......	......	.....	171
......	91 39	701 11	......	......	3,000 00	61 58	......	.....	207
......	38 87	860 46	......	......	5,000 00	......	$3,600 00	.....	311
......	185 09	1,345 64	......	......	5,000 00	.....	1,000 00	.....	446
......	35 50	365 97	......	2	2,500 00	400 00	......	.....	160
......	29 49	256 08	50 00	6	1,000 00	......	......	.....	202
......	114 78	2,139 81	.....	......	3,000 00	......	......	.....	567
......	55 15	765 94	400 00	2	3,000 00	3,500 00	......	.....	273
......	142 77	1,587 31	......	....	4,000 00	300 00	......	.....	361
......	43 18	583 71	......	3½	4,500 00	......	......	.....	161
......	41 22	1,054 54	......	......	6,300 00	......	......	.....	466
......	30 36	142 52	......	2	1,182 00	800 00	......	.....	106
......	76 08	452 28	......	......	5,600 00	......	......	.....	281
......	80 02	1,409 22	......	......	5,600 00	......	......	.....	273
......	115 56	2,380 77	......	......	10,800 00	1,078 00	......	.....	582
......	153 54	1,628 92	2,496 23	3	30,000 00	17,400 00	4,500 00	.....	428
......	57 87	570 45	......	1	3,000 00	......	......	.....	220
......	92 29	1,529 10	1,300 00	......	10,000 00	250 00	......	.....	357
......	46 54	842 46	......	......	2,100 00	......	......	.....	160
......	41 61	566 88	......	......	1,800 00	637 00	......	.....	158
......	14 55	204 53	......	......	1,400 00	......	......	.....	87
......	46 39	592 08	......	......	2,800 00	......	......	.....	132
......	37 80	344 11	497 00	.....	2,000 00	......	......	.....	161
......	58 56	500 05	......	......	2,000 00	......	......	.....	212
......	26 36	657 03	......	......	3,500 00	......	......	.....	230
......	58 81	992 12	......	......	4,400 00	......	......	.....	227
......	30 95	313 76	......	......	1,500 00	150 00	......	.....	142
......	26 95	422 10	......	......	800 00	......	......	.....	97
......	65 58	583 17	......	5	3,000 00	......	......	.....	191
......	20 10	220 95	......	......	800 00	......	......	.....	82
......	86 57	1,052 28	......	......	4,500 00	......	......	.....	192
......	130 06	1,399 84	......	......	6,000 00	......	......	.....	337
......	55 72	804 48	1,500 00	......	4,000 00	......	......	.....	218
......	849 00	21,024 50	10,000 00	......	120,000 00	215,000 00	90,000 00	.....	4,901
......	$3,473 60	$55,577 19	$17,693 36	......	$307,182 00	$242,320 03	$99,100 00	.....	$15,649

McKEAN

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Annin township, ...	$62,693 00	. . .	. . . .	4	$500 00	10	$626 93	10	$438 55
Bradford township, . . .	410,937 00	. . .	. . . .	10	4,565 37	2	821 87	. . .	. . . . .
Bradford borough, . . .	129,944 00	. . .	*	13	2,161 27	. . .	. . . . . .	. . .	. . . . .
Ceres township, ...	51,233 00	. . .	. . . .	7½	595 70	1	512 33	1	512 33
Corydon township, . . .	96,127 00	. . .	. . . .	10	1,005 27	10	961 27	. . .	. . . . .
Eldred township, . . .	82,000 00	. . .	. . . .	8	1,641 58	15	1,232 00	5	410 00
Hamilton township, . . .	69,959 00	. . .	. . . .	10	742 59	10	699 59	. . .	. . . . .
Hamlin township, ...	81,660 00	. . .	. . . .	15	1,224 49	10	816 60	. . .	. . . . .
Keating township, . . .	169,000 00	. . .	. . . .	4	676 00	10	1,690 00	5	845 00
Fayette township, ...	96,400 00	. . .	. . . .	10	964 00	10	964 00	5	482 00
Liberty township, ...	189,573 76	. . .	. . . .	15	3,131 07	10	1,896 49	8	1,469 64
Norwich township, . . .	95,322 00	. . .	. . . .	5	476 61	10	5,690 69	. . .	. . . . .
Otto township, ...	46,471 00	. . .	. . . .	10	578 71	10	464 71	. . .	. . . . .
Sergeant township, . . .	108,919 00	. . .	. . . .	10	1,059 19	10	1,059 19	5	529 59
Smethport borough, . . .	53,229 00	19¾	$1,100 00	33	1,749 00	. . .	. . . . . .	. . .	. . . . .
Wetmore township, . . .	149,373 00	. . .	. . . .	13	2,235 85	10	1,493 73	. . .	. . . . .
Total, ...	$1,892,840 76	. . .	$1,100 00	. . .	$23,306 70	. . .	$18,929 40	. . .	$4,687 11

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of seven and one half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$13 45	$499 83	......	2	$2,500 00	$500 00	......	......	218
......	31 60	3,082 83	......	......	6,700 00	......	......	......	456
......	121 10	974 58	......	......	1,500 00	......	......	......	472
......	3 15	491 86	......	......	5,000 00	600 00	......	......	257
......	90	720 94	......	......	3,500 00	......	......	......	44
......	23 40	698 00	......	7	3,500 00	......	......	......	371
......	3 35	524 69	......	......	......	......	......	......	43
......	1 20	645 44	......	5	1,500 00	......	......	......	41
......	27 06	1,272 81	......	4	3,850 00	2,330 00	......	......	372
......	23 30	831 66	......	......	6,000 00	383 91	......	......	194
......	36 84	1,436 05	$285 93	......	16,000 00	300 00	......	......	420
......	4 70	943 32	......	......	1,250 00	......	......	......	91
......	2 94	377 44	......	......	2,000 00	......	......	......	112
......	42 95	848 85	400 00	......	3,000 00	80 00	......	......	213
......	46 95	391 35	4,500 00	13	10,000 00	1,200 00	......	......	125
......	25 79	1,120 30	......	......	6,500 00	......	......	......	294
......	$408 68	$14,859 25	$5,185 93	......	$72,800 00	$5,393 91	......	......	3,723

MERCER

	Whole amount of taxable property.	Rate of city or borough tax.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax.	Whole amount of poor tax.
Bethel borough,	$54,275 00	...	*	3½	$216 82	...	......	...	......
Clarksville borough,	60,312 50	5	$321 99	8	500 00	...	......	...	......
Cool Spring,	470,245 00	...	......	2	1,071 31	3⅓	$1,567 48	...	......
Deer Creek,	209,695 00	...	......	3	639 28	4	838 78	...	......
Delaware,	1,699,227 00	...	......	2½	2,500 00	...	869 22	...	......
East Lackawannock,	384,161 00	...	......	2	768 00	3	1,152 48	...	......
Fairview,	509,472 00	...	......	1⅔	1,207 12	3	1,528 41	...	......
Findley,	605,557 00	...	......	2	1,625 00	2	2,300 00	...	......
French Creek,	508,600 00	...	......	2½	1,271 50	3	1,537 00	...	......
Greene,	551,945 00	...	......	2	1,329 89	3	1,655 83	...	......
Greeneville borough,	955,574 00	...	*	5	5,436 87	...	......	...	......
Hempfield,	520,551 00	...	......	2	1,351 10	3	1,561 65	...	......
Hickory,	146,906 00	...	......	2	4,829 60	3	4,407 18	...	......
Jamestown,	295,000 00	...	......	2½	1,654 00	3	885 00	...	......
Jackson,	461,228 00	...	......	1¼	828 72	3	1,383 66	...	......
Jefferson,	586,734 00	...	......	1	976 14	3½	1,953 56	...	......
Lackawannock,	536,587 00	...	......	2	1,364 17	3	1,609 76	...	......
Lake,	381,044 00	...	......	2	943 09	3	1,143 13	...	......
Liberty,	330,667 36	...	......	3	992 33	3	992 33	...	......
Mercer borough,	775,000 00	3	2,417 88	7	7,151 78	...	......	...	......
Mill Creek,	325,032 00	...	......	1½	945 09	3	1,119 47	...	......
New Lebanon,	88,802 00	...	......	1½	198 17	1½	176 54	...	......
New Vernon,	232,000 00	...	......	2½	850 00	4	1,125 00	...	......
Otter Creek,	259,193 00	...	......	1½	533 70	3	1,047 40	...	......
Perry,	53,403 33	...	......	1½	805 00	4	2,136 13	...	......
Pymatuning,	1,162,937 00	...	......	1	1,582 06	2½	3,799 63	...	......
Salem,	276,640 00	...	......	4	1,125 87	3	829 92	...	......
Sandy Creek,	274,879 00	...	......	2¼	618 00	3	824 00	...	......
Sandy Lake borough,	250,000 00	3	750 00	7	1,754 00	...	......	...	......
Sandy Lake,	461,455 00	...	......	2½	1,373 00	3⅓	1,814 64	...	......
Sharon borough,	1,373,305 00	7	13,720 75	6	12,000 00	...	......	...	......
Shenango,	734,169 00	...	......	2½	2,731 95	3⅓	2,854 59	...	......
Sheakleyville borough,	44,000 00	5	320 50	10	1,200 00	...	......	...	......
Springfield,	616,835 00	...	......	3	2,211 50	2	1,233 67	...	......
Stoneboro' borough,	175,890 00	6½	1,344 00	3½	783 82	...	......	...	......
Sugar Grove,	258,721 00	...	......	2½	864 29	3½	905 52	...	......
Sharpsville borough,	533,235 00	2½	1,892 34	3½	2,180 76	...	......	...	......
West Salem,	120,632 00	...	......	1	1,366 00	1½	2,149 00	...	......
West Middlesex borough,	250,818 00	...	*	6	1,774 91	...	......	...	......
Wilmington,	300,000 00	...	......	2¾	1,000 00	3	1,100 00	...	......
Wolf Creek,	292,228 00	...	......	2	721 65	5	1,461 44	...	......
Worth,	440,324 00	...	......	2	1,155 65	3½	1,541 13	...	......
Wheatland,	237,700 00	...	......	1½	575 55	4	950 80	...	......
Pine,	578,512 00	..	......	2⅓	1,732 86	2	1,157 02	...	......
Total,	19,443,586 19	...	$20,767 46	..	$76,295 55	...	$51,611 37	...	......

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of three mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$5 45	$162 80	......	......	$800	......	......	......	54
......	21 55	125 32	......	......	3,000	......	......	......	110
......	39 30	1,386 89	......	......	2,500	......	......	......	253
......	8 18	624 67	......	......	2,000	$359 00	......	......	159
......	108 87	2,671 98	......	......	3,250	......	......	......	432
......	15 90	1,214 95	......	......	6,000	......	......	......	208
......	68 36	1,504 42	......	......	3,700	......	......	......	358
......	26 25	1,980 50	......	......	6,300	......	......	......	415
......	22 15	970 94	......	......	6,000	......	......	......	292
......	37 00	1,655 84	......	......	5,000	......	......	......	226
......	137 10	2,866 72	......	......	10,000	......	......	......	709
......	53 48	1,561 65	......	......	4,500	......	......	......	310
......	197 78	4,434 18	......	......	15,000	......	......	......	1,613
......	50 05	879 34	......	2½	2,000	......	......	......	364
......	65 40	1,399 73	......	......	4,400	......	......	......	260
......	44 20	1,836 73	......	......	4,000	......	......	......	355
......	77 51	1,609 75	......	......	6,000	......	......	......	291
......	26 06	1,143 13	......	......	3,000	......	......	......	181
......	6 90	950 64	......	......	4,250	......	......	......	191
......	218 85	2,187 02	$3,200 00	......	17,000	......	$3,000 00	......	595
......	11 33	971 21	......	1½	5,000	......	......	......	231
......	14 40	262 41	......	......	1,000	......	......	......	81
......	2 08	831 54	......	......	3,200	......	......	......	213
......	28 90	802 78	......	......	1,800	......	......	......	153
......	20 85	1,058 50	......	......	2,100	......	......	......	280
......	195 57	3,624 43	......	......	5,650	......	......	......	647
......	11 51	836 04	......	2	1,700	......	......	......	170
......	22 35	833 76	......	......	2,100	......	......	......	212
......	27 75	588 91	......	......	3,000	......	......	......	222
......	23 97	1,327 89	......	4¼	3,800	55 00	......	......	304
......	296 43	5,575 91	......	......	40,000	55,913 69	20,000 00	......	1,460
......	36 35	2,239 19	41 65	1	16,000	......	......	......	434
......	15 50	180 41	1,500 00	......	3,400	......	......	......	108
......	34 69	1,850 51	......	......	7,500	......	......	......	361
......	8 20	573 43	......	......	3,500	......	......	......	252
......	22 57	819 09	......	......	2,000	......	......	......	209
......	47 91	1,550 91	......	......	10,000	......	......	......	477
......	53 97	3,101 94	......	......	6,500	......	......	......	585
......	27 75	752 45	......	......	5,000	......	......	......	270
......	30 95	946 32	......	......	2,400	......	......	......	153
......	11 02	817 97	......	1	3,000	......	......	......	175
......	22 06	1,320 97	......	......	5,500	......	......	......	275
......	4 25	713 10	......	......	2,200	......	......	......	219
......	79 03	1,735 54	......	......	7,500	......	......	......	383
......	$2,389 73	$64,481 91	$4,741 65	......	$252,550	$56,327 69	$23,000 00	......	15,250

MIFFLIN

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Armagh township, ...	$397.621 00	. . .	. . . .	5	$2,395 95	5	$2,395 95	. . .	. . . . .
Bratton township, ...	168,648 00	. . .	. . . .	5	1,121 24	5	843 24	. . .	. . . . .
Brown township, ...	342,926 00	. . .	. . . .	5	2,617 94	4	1,000 00	. . .	. . . . .
Derry township, ...	530,000 00	. . .	. . . .	4	2,150 00	4½	2,200 00	. . .	. . . . .
Decatur township, ...	185,750 00	. . .	. . . .	6	1,124 50	5	937 75	. . .	. . . . .
Granville township, . . .	323.935 00	. .	. . . .	3	1,447 80	5	1.619 67	. . .	. . . . .
Menno township,.	309,726 00	. .	. . . .	3	1,730 52	8	2,251 50	. . .	. . . . .
Oliver township, ...	306.748 00	. . .	. . . .	4½	1.722 37	5	1,533 74	. . .	. . . . .
Union township, ...	389.147 00	. . .	. . . .	5	2,334 74	5	1,945 73	. . .	. . . . .
Wayne township, ...	270,954 00	. . .	. . . .	7	2,312 68	5	1,354 77	. . .	. . . . .
Lewistown borough,. . .	537,703 00	8	$4,301 62	10	5,377 03	. . .	. . . .	. . .	. . . . .
McVeytown borough, . .	94,382 00	. . .	*	10	1,197 82	. . .	. . . .	. . .	. . . . .
Newton Hamilton bor.,	33,748 00	. . .	*	10	480 48	. .	. . . .	. . .	. . . . .
Total, ...	$3,891,288 00	. . .	$4,301 62	. . .	$26,013 07	. . .	$16,082 35	. . .	. . . . .

* Not reported.

MONROE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Stroudsburg borough, . .	$174,510 00	25	$4,362 75	10	$1,745 10	. . .	. . . .	5	$872 55
East Stroudsburg bor., .	85,860 00	10	3,900 00	16	1,519 74	. . .	. . . .	10	858 60
Barrett township, ...	67.690 00	. .	. . . .	10	746 00	10	746 00	3	200 00
Chestnut Hill township,	112.369 00	. . .	. . . .	13	1,423 10	15	1,605 22	3	459 87
Coolbaugh township, . .	59,133 00	. . .	. . . .	10	825 33	10	591 33	. . .	. . . . .
Eldred township,.	79,129 00	. . .	. . . .	12	1,181 55	10	791 29	. . .	. . . . .
Hamilton township, . . .	200,778 00	. .	. . . . . .	7	1,886 00	10	1,987 00	5	953 00
Jackson township, ...	44,000 00	. . .	. . . .	13	572 00	10	440 00	10	440 00
Middle Smithfield, ...	130.511 00	. . .	. . . .	10	1,625 11	10	1,305 11	. . .	. . . . .
Polk township, ...	108,868 00	. . .	. . . .	7	762 07	10	1,088 68	3	326 60
Pocono township.	80,451 00	. . .	. . . .	8	631 20	10	799 90	4½	361 17
Price township.	14,593 00	. . .	. . . .	10	207 93	20	291 96	. . .	. . . . .
Paradise township,. . . .	40,383 00	. . .	. . . .	13	670 98	10	403 83	. . .	. . . . .
Ross township, ...	76.331 00	. . .	. . . .	5	381 61	8	611 00	4	285 00
Smithfield township,. . .	194,108 00	. . .	. . . .	9	1,945 48	10	1.941 08	5	970 54
Stroud township,.	140.000 00	. . .	. . . .	10	1,792 00	10	1,400 00	. . .	. . . . .
Tobyhanna township, . .	28,756 00	. . .	. . . .	10	520 00	20	800 00	13	520 00
Tunkhannock township,	16,000 00	. . .	. . . .	10	288 00	20	320 00	. . .	. . . . .
Total, ...	$1,653,470 00	. . .	$8,262 75	. . .	$18,723 20	. . .	$15,122 40	. . .	$6,247 33

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$143 73	$4,156 68	$500 00	. . . . . .	$10,000 00	. . . . . .	. . . . . .	. . . . .	543
. . . . . .	83 20	1,603 28	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	278
. . . . . .	131 91	3,297 35	1,791 00	2	10.000 00	. . . . . .	. . . . . .	. . . . .	338
. . . . . .	56 92	5,186 15	. . . . . .	. . . . . .	12,000 00	. . . . . .	. . . . . .	. . . . .	659
. . . . . .	47 59	1,799 85	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	363
. . . . . .	56 05	3,238 78	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	476
. . . . . .	255 09	2,850 94	. . . . . .	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	336
. . . . . .	54 54	3,066 83	. . . . . .	. . . . . .	9,000 00	. . . . . .	. . . . . .	. . . . .	342
. . . . . .	250 86	2,649 61	. . . . . .	. . . . . .	9,000 00	. . . . . .	. . . . . .	. . . . .	389
. . . . . .	47 50	2,662 04	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	416
. . . . . .	143 88	5,162 22	23,425 36	. . . . . .	40,000 00	. . . . . .	5,000 00	. . . . .	981
. . . . . .	42 63	858 29	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	254
. . . . . .	11 34	326 14	. . . . . .	. . . . . .	2,000 00	. . . . . .	. . . . . .	. . . . .	143
. . . . . .	$1,325 24	$36,858 16	$25,716 36	. . . . . .	$132,000 00	. . . . . .	$5,000 00	. . . . .	5,518

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$28 95	$1,704 69	. . . . . .	. . . . . .	$2,500 00	$20,000 00	$2,000 00	. . . . .	446
. . . . . .	21 34	833 25	$1,164 53	. . . . . .	3,000 00	3,000 00	. . . . . .	. . . . .	232
. . . . . .	3 30	623 57	. . . . . .	. . . . . .	2,000 00	. . . . . .	. . . . . .	. . . . .	215
. . . . . .	5 35	1,356 72	249 46	. . . . . .	5,200 00	231 64	. . . . .	$193 71	321
. . . . . .	4 50	591 33	. . . . . .	. . . . . .	1,200 00	. . . . . .	. . . . . .	. . . . .	234
. . . . . .	5 56	791 29	. . . . . .	. . . . . .	2,800 00	. . . . . .	. . . . . .	. . . . .	232
. . . . . .	27 72	2,151 72	. . . . . .	. . . . . .	6,000 00	200 00	. . . . . .	. . . . .	463
. . . . . .	. . . . . .	442 13	98 00	. . . . . .	2,000 00	500 00	. . . . . .	. . . . .	188
. . . . . .	13 22	1,305 11	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	320
. . . . . .	5 00	1,050 11	. . . . . .	. . . . . .	2,400 00	100 00	. . . . . .	. . . . .	261
. . . . . .	4 00	720 42	18 76	7	2,500 00	808 34	. . . . . .	. . . . .	289
. . . . . .	. . . . . .	145 93	. . . . . .	. . . . . .	800 00	. . . . . .	. . . . . .	. . . . .	62
. . . . . .	. . . . . .	403 83	. . . . . .	. . . . . .	1,600 00	. . . . . .	. . . . . .	. . . . .	146
. . . . . .	5 70	777 83	24 00	. . . . . .	2,500 00	110 00	. . . . . .	. . . . .	162
. . . . . .	7 90	1,914 91	. . . . . .	. . . . . .	5,000 00	. . . . .	. . . . . .	. . . . .	357
. . . . . .	4 85	1,869 00	. . . . . .	. . . . . .	5,600 00	. . . . . .	. . . . . .	. . . . .	392
. . . . . .	. . . . . .	353 41	. . . . . .	4	1,500 00	1,000 00	. . . . . .	300 00	128
. . . . . .	. . . . . .	214 40	. . . . . .	. . . . . .	800 00	. . . . . .	. . . . . .	. . . . .	66
. . . . . .	$137 39	$17,249 65	$1,554 75	. . . . . .	$51,400 00	$25,949 98	$2,000 00	$493 71	4,514

MONTGOMERY

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Abington township, . . .	$1,622,079 00	. . .	. . . .	2	$3,760 16	3	$4,866 23	. . .	. . . .
Cheltenham township, . .	1,586.170 00	. . .	. . . .	3	5,216 77	3	4,758 51	. . .	. . . .
Douglass township, . . .	609,219 00	. . .	. . . .	2	1,650 00	3	1,753 00	. . .	. . . .
Franconia township, . .	908,485 00	. . .	. . . .	1½	1,816 00	3	1,950 00	. . .	. . . .
Frederick township, . . .	515,795 00	. . .	. . . .	3	2,107 38	4	2,183 18	. . .	. . . .
Gwynedd township, . . .	1,335,705 00	. . .	. . . .	2	3,182 41	2 8-100	3,739 37	. . .	. . . .
Hatfield township, ...	679,235 00	. . .	. . . .	2	1,639 60	3	2,030 65	. . .	. . . .
Horsham township, . . .	948,750 00	. . .	. . . .	2	2,341 50	3	2,846 25	. . .	. . . .
Limerick township, . . .	1,062,373 00	. . .	. . . .	1½	2,320 56	3	3,187 11	. . .	. . . .
Lower Merion township,	2,813,881 00	. . .	. . . .	3½	13,672 00	8	23,000 00	. . .	. . . .
Lower Providence twp.,	830,835 00	. . .	. . . .	3	2,897 65	8	6,400 00	. . .	. . . .
Lower Salford township,	792,520 00	. . .	. . . .	2	2,013 04	5	3,962 60	. . .	. . . .
Marlborough township, .	258,790 00	. . .	. . . .	4	1,334 16	6	1,552 74	. . .	. . . .
Moreland township, . . .	1,251,550 00	. . .	. . . .	3¼	4,069 18	2½	2,763 00	. . .	. . . .
Montgomery township, .	415.263 00	. . .	. . . .	3	1,384 00	3½	1,500 00	. . .	. . . .
New Hanover township,	659,347 00	. . .	. . . .	3	2,447 04	3	1,978 04	. . .	. . . .
Norriton township, . . .	769,543 00	. . .	. . . .	2	1,942 09	5	3,847 71	. . .	. . . .
Perkiomen township, . .	1,053,043 00	. . .	. . . .	2½	3,127 46	3	3,790 95	. . .	. . . .
Plymouth township, . . .	806,521 00	. .	. . . . . .	2	2.097 43	3	2,400 00	. . .	. . . .
Pottsgrove township. . .	902,423 00	. . .	. . . .	2	3,700 00	4	5,000 00	. . .	. . . .
Springfield township, . .	972,000 00	. . .	. . . .	2	2,162 50	3½	3,400 00	. . .	. . . .
Towamensing township,	513,810 00	. . .	. . . .	2½	1,801 88	2	1,147 62	. . .	. . . .
Upper Dublin township,	1,049,330 00	. . .	. . . .	2½	3,145 32	3	3,147 99	. . .	. . . .
Upper Hanover twp., . .	950,465 00	. . .	. . . .	2	2,525 93	3	2,851 39	. . .	. . . .
Upper Merion township,	1,313,894 00	. . .	. . . .	4	6,043 58	3	3,941 68	. . .	. . . .
Upper Providence twp., .	1,481,790 00	. . .	. . . .	3	5,321 37	3	4,445 37	. . .	. . . .
Upper Salford township,	720,697 00	. . .	. . . .	3	2,352 33	3 7-10	2,291 00	. . .	. . . .
Whitemarsh township, .	1,720,100 00	. . .	. . . .	3½	5,969 95	2	3,149 38	. . .	. . . .
Whitpain township, . . .	840,973 00	. . .	. . . .	2¾	2,312 67	3	2,522 91	. . .	. . . .
Worcester township, . .	896,324 00	. . .	. . . .	2	1,792 64	2 2-10	1,934 81	. . .	. . . .
Bridgeport borough, . .	474,504 28	7	3,321 53	6	2,931 41	. . . .	. . . . . .	.	. . . .
Conshohocken borough,	1,250,000 00	7	9,271 00	6	8,500 00	. . . .	. . . .	. . .	. . . .
E. Greenville borough, .	106,206 66	3	318 61	2	284 80	. . . .	. . . .	. . .	. . . .
Greenlane borough, . . .	56,940 00	. . .	*	. . .	. . . . . .	. . . .	. . . .	. . .	. . . .
Hatboro' borough, . . .	239,340 00	4	957 35	4	1,033 91	. . . .	. . . .	. . .	. . . .
Jenkintown borough, . .	308,601 00	2½	819 65	4½	1,463 83	. . . .	. . . .	. . .	. . . .
Lansdale borough, ...	221,428 00	4	885 00	10	2,214 28	. . . .	. . . .	. . .	. . . .
North Wales borough, .	200,957 00	4½	904 30	4½	886 00	. . . .	. . . . . .	. . .	. . . .
Norristown borough, . .	4,240,262 00	. . .	*	6	28,441 57	. . . .	. . . .	. . .	. . . .
Pottstown borough, . . .	1,460,775 00	. . .	*	7	11,401 42	. . . .	. . . .	. . .	. . . .
W. Conshohocken bor., .	356.600 00	6	2,119 60	6	2,300 00	. . . .	. . . .	. . .	. . . .
Total, ...	39,206,523 94	. . .	$18,597 04	. . .	$155,611 82	. . . .	$112,341 49	. . .	. . . .

* Not reported.

COUNTY.

mount of water tax.	Amount of State tax.	Amount of county tax at the rate of four mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$821 54	$6,488 32	......	......	$4,800 00	......	......	......	516
......	510 23	9,344 68	......	......	10,000 00	......	......	......	788
......	345 91	2,567 47	......	......	8,000 00	......	......	......	443
......	874 15	3,675 10	......	......	8,000 00	......	......	......	607
......	449 71	2,183 18	......	......	11,000 00	......	......	......	470
......	653 86	4,357 40	......	......	6,500 00	......	......	......	511
......	472 63	2,716 94	......	......	2,800 00	......	......	......	440
......	623 61	3,795 00	......	......	3,600 00	......	......	......	444
......	437 39	4,249 49	......	......	15,000 00	......	......	......	727
......	1,133 30	11,389 04	$4,000 00	......	37,000 00	......	......	......	1,323
......	612 88	3,462 24	......	......	8,500 00	......	......	$700 00	434
......	810 85	3,170 08	......	......	10,000 00	......	......	......	428
......	178 24	1,035 16	......	......	8,400 00	......	......	......	299
......	488 01	4.577 56	......	......	6,000 00	......	......	......	516
......	215 26	2,014 50	......	......	4,000 00	......	......	......	278
......	308 58	2,637 39	......	......	11,000 00	......	......	......	469
......	581 06	3,078 17	......	......	6,000 00	......	......	......	403
......	762 02	4,212 17	......	......	7,500 00	......	......	......	600
......	382 43	3,393 96	......	......	6,000 00	......	......	......	657
......	434 33	4,641 24	......	......	12,000 00	......	......	......	868
......	276 09	3,886 36	......	......	4,000 00	......	......	......	292
......	543 46	2,489 13	524 61	......	5,900 00	......	......	......	303
......	571 12	4,197 32	......	......	6,000 00	......	......	......	522
......	837 09	3.801 86	......	......	12,000 00	......	......	......	625
......	310 39	5,255 58	......	......	15,000 00	......	......	......	788
......	852 48	5,927 16	......	......	15,000 00	......	......	......	876
......	520 00	2,507 76	......	......	4,500 00	......	......	......	475
......	711 77	6,385 89	......	......	19,000 00	......	......	......	829
......	486 91	3,363 89	......	......	6,000 00	......	......	......	434
......	885 51	3,683 74	......	......	6,500 00	......	......	......	444
......	60 67	1,891 43	3,800 00	......	8,000 00	$8,664 14	$3,000 00	......	364
......	168 33	5,251 94	24,000 00	......	35,000 00	30,000 00	2,200 00	......	1,140
......	127 89	429 84	......	......	3,000 00	......	......	......	109
......	32 26	227 76	......	......	......	......	......	......	69
......	103 42	959 81	......	......	6,000 00	300 00	......	......	176
......	121 11	1,234 40	400 00	......	6,000 00	500 00	......	......	207
......	49 72	851 17	2,000 00	......	4,000 00	2,000 00	......	......	197
......	60 47	803 83	5,000 00	......	7,000 00	......	1,600 00	......	182
......	1,645 87	16,961 05	......	......	50,000 00	......	......	......	3,264
......	410 25	5,843 10	......	......	25,000 00	......	......	......	1,176
......	51 33	1,458 53	11,000 00	......	11,000 00	1,100 00	800 00	......	339
......	$19,919 13	$157,399 65	$50,724 61	......	$435,000 00	$42,564 14	$7,600 00	$700 00	24,022

MONTOUR

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Anthony township, . .	$152,542 00	. . .	. . . . . .	6	$1,226 89	6	$937 66	5½	$859 52
Cooper township, ...	81,120 00	. . .	. . . . . .	3	338 36	8	648 96	. . .	. . . . .
Derry township, ...	167,676 00	. . .	. . . . . .	6	1,215 06	6	1,006 05	. . .	. . . . .
Danville borough, ...	1,075,646 00	. . .	*	9	11,216 81	. .	. . . . . .	. . .	. . . . .
Limestone township, . .	288,340 00	. . .	. . . . . .	5	1,441 70	2½	720 85	. . .	. . . . .
Liberty township, ...	197,895 00	. . .	. . . . . .	7	1,681 26	4	791 58	. . .	. . . . .
Mayberry township, . . .	64,041 00	. . .	. . . . . .	4	312 16	8	512 33	. . .	. . . . .
Valley township, ...	118,050 00	. . .	. . . . . .	7	1,282 82	6	1,500 50	4	882 87
Washingtonville boro', .	19,887 00	. . .	*	12	286 64	. . .	. . . . . .	. . .	. . . . .
West Hemlock township,	54,437 00	. . .	. . . . . .	7	461 06	9	489 93	. . .	. . . . .
Mahoning township, . .	131,048 00	. . .	. . . . . .	7	1,178 34	7	917 33	. . .	. . . . .
Total, ...	$2,350,682 00	. . .	. . . . . .	. . .	$20,641 10	. . .	$7,525 19	. . .	$1,742 39

* Not reported.

NORTHAMPTON

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax.	Whole amount of poor tax.
Allen township, ...	$1,277,545	. . .	. . . . . .	1½	$2,453 44	1¾	$3,066 00	. . .	. . . . .
Bangor borough, ...	428,474	. . .	*	4	2,004 90	. . .	. . . . . .	. . .	. . . . .
Bath borough, ...	420,705	. . .	*	1½	856 05	. . .	. . . . . .	. . .	. . . . .
Bethlehem, ...	3,285,590	2	$6,747 00	3	9,545 95	. . .	. . . . . .	. . .	. . . . .
Bethlehem township, . .	2,518,885	. . .	. . . . . .	8½	2,635 00	10	2,400 00	. . .	. . . . .
Bushkill township, . . .	883,872	. . .	. . . . . .	1	1,378 66	1.7	1,574 69	. . .	. . . . .
Chapman borough, . . .	221,020	. . .	*	3	779 06	. . .	. . . . . .	. . .	. . . . .
East Allen township, . .	1,449,061	. . .	. . . . . .	7½	1,498 96	2	2,898 12	. . .	. . . . .
South Easton borough, .	1,459,383	4	6,381 68	3	5,112 90	. . .	. . . . . .	. . .	. . . . .
Forks township, ...	1,416,745	. . .	. . . . . .	1.87	3,060 66	3	4,250 23	. . .	. . . . .
Freemansburg borough,	215,172	4	879 63	3	746 09	. . .	. . . . . .	. . .	. . . . .
Glendon borough, ...	725,875	3	2,177 62	3	2,260 00	. . .	. . . . . .	. . .	. . . . .
Hanover township, . . .	571,190	. . .	. . . . . .	8	644 23	7	513 23	. . .	. . . . .
Hellertown borough, . .	378,207	. . .	*	1.2	642 85	. . .	. . . . . .	. . .	. . . . .
Lehigh township, ...	1,420,958	. . .	. . . . . .	1½	2,916 08	. . .	3,627 37	. . .	. . . . .
Lower Mt. Bethel twp., .	1,446,921	. . .	. . . . . .	1½	2,649 38	2½	3,617 30	. . .	. . . . .
Lower Saucon township,	3,420,535	. . .	. . . . . .	¾	3,964 39	1	3,420 54	. . .	. . . . .
Lower Nazareth twp., .	1,463,035	. . .	*	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Moore township, ...	1,446,611	. . .	. . . . . .	1⅕	2,797 81	2	2,893 22	. . .	. . . . .
Nazareth borough, . . .	673,300	1½	1,010 00	1¼	1,000 00	. . .	. . . . . .	. . .	. . . . .
Palmer township, ...	1,722,095	. . .	. . . . . .	3-5	1,575 26	2	3,444 19	. . .	. . . . .
Plainfield township, . . .	1,318,982	. . .	. . . . . .	1⅓	2,388 64	2	2,637 96	. . .	. . . . .
South Bethlehem bor., .	2,985,860	3¼	9,876 76	2¾	8,379 10	. . .	. . . . . .	. . .	. . . . .
Easton, ...	8,621,431	. . .	*	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Upper Mt. Bethel twp., .	1,998,610	. . .	. . . . . .	2½	5,995 53	2	3,997 22	. . .	. . . . .
Upper Nazareth twp., .	825,583	. . .	. . . . . .	7¼	667 68	10	842 74	. . .	. . . . .
Washington township, .	910,569	. . .	. . . . . .	1¾	1,923 61	3	3,076 07	. .	. . . . .
Williams township, . . .	1,560,106	. . .	. . . . . .	2	3,856 21	2	3,120 21	. . .	. . . . .
Total, ...	$45,096,320	. . .	$27,072 69	. . .	$71,732 44	. . .	$45,377 09	. . .	. . . . .

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of seven mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$56 19	$904 63	......	......	$5,500 00	......	......	.....	306
......	24 33	567 84	......	......	1,500 00	......	......	.....	95
......	51 90	1,173 73	......	......	3,500 00	......	......	.....	209
......	103 05	7,529 49	......	......	25,000 00	......	......	.....	1,536
......	92 96	2,043 03	......	......	3,500 00	......	......	.....	184
......	60 71	1,385 17	......	......	5,600 00	......	......	.....	296
......	19 98	448 29	......	......	1,400 00	......	......	.....	56
......	43 38	1,303 95	$252 35	......	5,000 00	......	......	.....	260
......	6 66	139 21	......	......	700 00	......	......	.....	48
......	16 82	381 06	......	......	2,100 00	......	......	.....	80
......	13 10	917 33	......	......	2,800 00	......	......	.....	261
......	$488 27	$16,793 73	$252 35	......	$56,600 00	......	......	.....	3,331

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of two mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$271 90	$2,713 27	......	......	$13,500 00	......	......	.....	612
......	75 36	856 96	......	......	5,500 00	......	......	.....	291
......	150 55	841 41	......	......	3,300 00	......	......	.....	225
......	1,119 02	6,139 91	$55,100 00	......	72,614 12	$82,800 00	$32,697 00	.....	1,386
......	773 62	4,907 20	......	......	10,000 00	......	......	.....	710
......	170 01	1,989 15	......	......	10,000 00	......	......	.....	842
......	23 74	442 04	......	......	1,000 00	......	......	.....	116
......	209 54	2,898 12	......	......	5,500 00	......	......	.....	331
......	50 32	2,390 72	......	......	22,500 00	1,281 60	4,000 00	.....	1,087
......	390 61	2,833 49	......	......	9,000 00	......	......	.....	412
......	100 35	426 02	......	......	3,500 00	4,200 00	1,000 00	$2,400	217
......	35 18	1,438 72	......	......	3,080 00	......	......	.....	211
......	147 20	1,350 03	......	......	3,000 00	......	......	.....	148
......	132 45	756 41	......	......	2,000 00	......	......	.....	189
......	209 20	3,058 31	......	......	29,600 00	......	......	.....	866
......	364 81	2,893 84	......	......	9,000 00	......	......	.....	479
......	731 16	6,841 47	......	......	22,000 00	......	......	.....	1,399
......	370 93	2,926 07	......	......	......	......	......	.....	305
......	269 61	2,893 22	......	......	16,500 00	......	......	.....	869
......	517 37	1,349 11	......	......	5,500 00	1,700 00	700 00	.....	296
......	338 70	3,444 19	......	......	9,000 00	......	......	.....	542
......	372 64	2,637 96	......	......	14,000 00	......	......	.....	630
......	163 17	5,426 39	7,650 50	......	30,000 00	72,350 00	5,200 00	.....	1,132
......	1,975 91	17,242 74	......	......	......	......	......	.....	3,468
......	349 74	3,997 22	......	......	24,000 00	......	......	.....	999
......	262 86	1,499 14	......	......	1,800 00	......	......	.....	179
......	153 14	1,833 73	......	......	10,000 00	......	......	.....	450
......	348 28	3,120 21	......	......	10,000 00	......	......	.....	736
......	$10,456 29	$90,499 80	$62,750 50	......	$345,894 12	$162,331 60	$43,597 00	$2,400	19,019

NORTHUMBERLAND

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Upper Augusta twp., . .	$273,670 00	. . .	. . . .	5	$1,888 35	6	$1,642 02	. . .	. . . . . .
Lower Augusta twp., . .	283,366 00	. . .	. . . .	7½	2,708 25	10	2,833 66	. . .	. . . . . .
Chillisquaque twp., . . .	388,050 00	. . .	. . . .	6	2,722 44	5	1,414 96	6¼	$1,753 03
Coal township, ...	545,000 00	. . .	. . . .	13	8,230 97	10	5,450 00	10	5,450 00
Cameron township, . . .	175,672 00	. . .	. . . .	10	1,993 72	10	1,756 72	. . .	. . . . . .
Delaware township, . . .	519,600 00	. . .	. . . .	4½	2,701 62	4	1,992 45	5	2,515 70
Jordan township, ...	166,250 00	. . .	. . . .	4	855 58	9	1,416 73	. . .	. . . . . .
Jackson township, ...	119,032 00	. . .	. . . .	5½	863 00	10	1,190 32	. . .	. . . . . .
Lewis township, ...	340,000 00	. . .	. . . .	2	2,274 00	. . .	1,886 40	. . .	776 37
Little Mahanoy twp., . .	33,514 00	. . .	. . . .	4	204 05	10	354 14	3	100 54
Upper Mahanoy twp., .	146,585 00	. .	. . . . . .	6	1,155 51	10	1,465 85	. . .	. . . . . .
Lower Mahanoy twp., . .	271,566 00	. . .	. . . .	6	2,106 40	6	1,629 39	. . .	. . . . . .
McEwensville borough,	35,000 00	5	$165 00	8	280 00	. . .	. . . .	8	280 00
Mt. Carmel township, .	322,533 00	. . .	. . . .	13	5,809 67	10	3,391 03	10	3,391 03
Mt. Carmel borough, . .	437,173 00	. . .	*	13	6,219 25	. . .	. . . .	. . .	. . . . . .
Milton borough, ...	368,255 00	. . .	*	10	4,558 55	. . .	. . . .	. . .	. . . . . .
Snydertown borough, . .	37,155 00	1	106 00	3	123 85	. . .	. . . .	. . .	. . .
Northumberland bor., .	245,414 00	5	1,293 81	12	5,121 14	5	1,293 82	. . .	. . . . . .
Point township, ...	489,832 00	. . .	. . . .	4	1,219 03	3½	913 60	2	534 92
Rush township, ...	230,000 00	. . .	. . . .	9½	1,220 00	6	1,400 00	3	690 00
Riverside borough, ...	42,000 00	3½	147 00	26	1,092 00	. . .	. . . .	. . .	. . . . . .
Sunbury, ...	445,800 00	27	14,588 17	12	6,487 96	. . .	. . . .	7	3,925 99
Shamokin township, . . .	305,325 00	. . .	. . . .	9	3,355 93	10	3,053 25	. . .	. . . . . .
Shamokin borough, . . .	316,925 00	. . .	. . . .	3½	2,474 36	10	2,978 85	6	1,769 99
Turbutville borough, . .	54,888 00	2	109 16	4½	328 72	. . .	. . . .	. . .	. . . . . .
Turbut township, ...	500,700 00	. . .	. . . .	4	2,516 00	3	1,066 00	3	1,000 00
Washington township, .	108,614 00	. . .	. . . .	5½	820 38	10	1,086 14	. . .	. . . . . .
Watsontown borough, . .	184,737 00	. . .	*	10	2,299 37	. . .	. . . .	. . .	. . . . . .
Zerbe township, ...	281,250 00	. . .	. . . .	8	1,787 19	6	1,270 71	8	1,654 41
Total, ...	$7,667,906 00	. . .	$16,409 14	. . .	$73,417 29	. . .	$39,486 04	. . .	$23,841 98

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$21 00	$2,736 70	......	......	$6,300 00	......	......	.....	520
......	33 00	2,833 66	......	......	11,700 00	......	......	.....	583
......	68 95	3,880 50	......	......	15,000 00	......	......	.....	466
......	2 25	5,962 83	......	2	26,000 00	$22,000 00	......	.....	828
......	7 80	1,756 72	......	......	4,500 00	......	......	.....	237
......	109 80	5,253 25	......	......	1,400 00	......	......	.....	615
......	26 60	1,616 76	......	......	3,500 00	......	......	.....	305
......	14 05	1,255 43	......	......	3,500 00	......	......	.....	269
......	32 75	3,490 81	......	4	6,000 00	......	......	.....	377
......	12 30	359 29	......	......	2,000 00	......	......	.....	82
......	29 33	1,465 85	......	......	5,400 00	......	......	.....	276
......	39 30	2,715 66	......	......	10,000 00	......	......	.....	477
......	31 00	435 36	......	......	4,000 00	......	......	.....	119
......	93	4,371 73	1,044 00	5	8,000 00	20,331 05	......	.....	438
......	4 80	1,144 30	......	......	4,500 00	......	......	.....	536
......	67 15	3,782 55	......	......	8,000 00	......	......	.....	876
......	5 19	323 49	......	......	1,200 00	......	1,200 00	.....	69
......	16 25	2,662 50	15,000 00	6	25,000 00	10,000 00	......	.....	754
......	13 50	2,698 44	......	2	1,500 00	......	......	.....	211
......	17 10	2,295 03	......	......	14,000 00	......	......	.....	463
......	6 00	528 76	......	......	5,000 00	......	......	.....	194
......	94 60	4,990 30	8,376 25	......	25,000 00	35,275 47	6,000 00	.....	1,264
......	43 80	3,053 25	......	......	12,600 00	......	......	.....	608
......	14 15	4,525 31	......	3	10,300 00	......	......	.....	1,933
......	16 30	558 83	......	......	1,000 00	......	......	.....	150
......	27 61	5,075 99	......	1½	15,000 00	......	......	.....	731
......	16 12	1,086 14	......	......	4,500 00	......	......	.....	223
......	75 24	1,847 37	......	......	6,000 00	......	......	.....	452
......	43 61	2,898 31	......	......	3,500 00	......	......	.....	407
......	$910 88	$75,506 12	$24,420 25	......	$244,400 00	$87,606 52	$7,200 00	.....	14,463

PERRY

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Bloomfield borough,	$170,372 00	3	$511 00	6	$1,002 00	. . .	. . . . . .	. . .	. . . . .
Buffalo township,	176,710 00	. . .	. . . . . .	4	781 84	6	$1,060 26	. . .	. . . . .
Carroll township,	224,167 00	. . .	. . . . . .	4	1,520 82	8	1,891 33	. . .	. . . . .
Centre township,	229,011 00	. . .	. . . . . .	7	1,700 00	6	1,338 00	. . .	. . . . .
Duncannon borough,	250,500 00	2½	513 00	7	1,753 00	. . .	. . . . . .	. . .	. . . . .
Greenwood township,	298,000 00	. . .	. . . . . .	2½	1,160 00	4½	1,756 00	. . .	. . . . .
Howe township,	61,000 00	. . .	. . . . . .	7	427 00	10	610 00	. . .	. . . . .
Jackson township,	250,522 00	. . .	. . . . . .	2½	981 30	5	1,252 61	. . .	. . . . .
Juniata township,	273,563 00	. . .	. . . . . .	3	820 69	5	789 71	. . .	. . . . .
Landisburg borough,	69,407 00	. . .	. . . . . .	2	211 91	. . .	. . . . . .	. . .	. . . . .
Liverpool borough,	152,160 00	5	760 80	4	1,006 10	. . .	. . . . . .	. . .	. . . . .
Liverpool township,	247,605 00	. . .	. . . . . .	4	1,244 42	5	1,238 02	. . .	. . . . .
Madison township,	300,000 00	. . .	. . . . . .	3	1,040 00	4	1,200 00	. . .	. . . . .
Marysville borough,	195,000 00	4	780 00	6	1,170 00	. . .	. . . . . .	. . .	. . . . .
Miller township,	65,000 00	. . .	. . . . . .	5	325 00	5	325 00	. . .	. . . . .
Millerstown borough,	124,000 00	5	620 00	6	744 00	. . .	. . . . . .	. . .	. . . . .
New Buffalo borough	45,032 00	2½	112 26	7	315 34	. . .	. . . . . .	. . .	. . . . .
Newport borough,	213,457 00	6	1,455 13	6	1,583 32	. . .	. . . . . .	. . .	. . . . .
Oliver township,	135,458 00	. .	. . . . . .	2	422 87	6	812 26	. . .	. . . . .
Penn township,	372,235 00	. . .	. . . . . .	5	2,009 88	5	1,969 35	. . .	. . . . .
Rye township,	171,495 00	. . .	. . . . . .	3	744 48	6	1,028 97	. . .	. . . . .
Sandy Hill district,	234,789 00	. .	. . . . . .	2½	807 97	5	1,173 94	. . .	. . . . .
Saville township,	393,806 00	. . .	. . . . . .	3½	1,716 22	3½	1,378 32	. . .	. . . . .
Spring township,	426,739 00	. . .	. . . . . .	2½	1,958 43	4	1,600 00	. . .	. . . .
Taboyne township,	94,633 00	. . .	. . . . . .	5	675 51	6	567 91	. . .	. . . . .
Tuscarora township,	160,562 00	. . .	. . . . . .	7	1,371 93	5	802 81	. . .	. . . . .
Tyrone townstip,	420,582 00	. . .	. . . . . .	2½	1,295 00	. . .	2,396 81	. . .	. . . . .
Watts township,	94,293 00	. . .	. . . . . .	3½	330 00	7	659 98	. . .	. . . . .
Wheatfield township,	155,605 00	. .	. . . . . .	2½	606 75	5	778 02	. . .	. . . . .
Total,	$6,005,703 00	. . .	$4,752 19	. . .	$29,725 78	. . .	$24,629 30	. . .	. . . . .

PIKE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Blooming Grove twp,	$77,017 00	. . .	. . . .	8	$700 00	10	$770 00	5	$385 00
Delaware township,	91,125 00	. . .	. . . .	5	695 69	9	820 12	4	364 50
Dingman township,	79,032 00	. . .	. . . .	12	1,167 38	10	790 32	. . .	. . . . .
Green township,	82,741 00	. . .	. . . .	10	1,546 75	10	827 41	5	248 22
Lackawaxen township,	125,000 00	. . .	. . . .	13	1,625 00	15	1,875 00	20	2,500 00
Lehman township,	112,810 00	. . .	. . . .	9	1,000 00	7	638 96	. . .	. . . . .
Milford borough,	84,475 00	. . .	*	10	1,148 75	. . .	. . . . .	. . .	. . . . .
Milford township,	28,361 00	. . .	. . . .	10	283 61	10	283 61	2	56 72
Palmyra township,	78,879 00	. . .	. . . .	10	1,009 79	10	788 79	. . .	. . . . .
Porter township,	42,073 00	. . .	. . . .	5	210 36	10	420 73	. .	. . . . .
Shohola township,	53,729 00	. . .	. . . .	5	387 53	10	537 29	5	268 74
Westfall township,	121,413 00	. . .	. . . .	9	1,286 13	9	1,092 80	6	728 17
Total,	$976,655 00	. . .	. . . .	. . .	$11,060 99	. . .	$8,845 03	. . .	$4,551 35

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of six mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$121 45	$1,022 14	$400 00	. . . . . .	$7,000 00	. . . . . .	. . . . . .	. . . . .	198
. . . . . .	50 90	1,060 68	. . . . . .	. . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	246
. . . . . .	88 25	1,330 25	. . . . . .	2	4,000 00	. . . . . .	. . . . . .	. . . . .	414
. . . . . .	48 31	1,366 33	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	360
. . . . . .	55 51	900 87	6,000 00	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	314
. . . . . .	48 91	1,760 79	. . . . . .	. . . . . .	2,800 00	. . . . . .	. . . . . .	$1,900 00	311
. . . . . .	16 55	375 42	674 00	5	2,400 00	. . . . . .	. . . . . .	. . . . .	119
. . . . . .	66 94	1,502 07	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	355
. . . . . .	47 19	1,173 41	. . . . . .	3	4,500 00	. . . . . .	. . . . . .	. . . . .	260
. . . . . .	48 37	418 41	. . . . . .	. . . . . .	400 00	. . . . . .	$500 00	. . . . .	134
. . . . . .	81 30	921 13	. . . . . .	. . . . . .	400 00	. . . . . .	1,000 00	. . . . .	283
. . . . . .	33 26	1,485 01	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	254
. . . . . .	74 36	1,803 59	. . . . . .	. . . . . .	5,000 00	$1,500 00	. . . . . .	1,500 00	258
. . . . . .	57 66	1,137 36	. . . . . .	. . . . . .	6,500 00	. . . . . .	. . . . . .	. . . . .	355
. . . . . .	9 57	357 70	. . . . . .	. . . . . .	1,500 00	. . . . . .	. . . . . .	. . . . .	112
. . . . . .	46 02	751 62	. . . . . .	. . . . . .	3,500 00	100 00	. . . . . .	. . . . .	178
. . . . . .	17 22	220 79	1,122 99	. . . . . .	2,800 00	. . . . . .	. . . . . .	. . . . .	90
. . . . . .	105 50	1,457 92	. . . . . .	. . . . . .	10,000 00	. . . . . .	45 00	. . . . .	400
. . . . . .	30 28	815 39	. . . . . .	. . . . . .	3,500 00	. . . . . .	. . . . . .	. . . . .	205
. . . . . .	95 25	2,155 91	. . . . . .	. . . . . .	6,338 68	. . . . . .	. . . . . .	. . . . .	500
. . . . . .	37 34	1,117 63	. . . . . .	. . . . . .	1,600 00	. . . . . .	. . . . . .	. . . . .	230
. . . . . .	61 53	1,409 14	. . . . . .	. . . . . .	3,500 00	. . . . . .	. . . . . .	. . . . .	221
. . . . . .	105 63	2,363 77	. . . . . .	3½	10,000 00	. . . . . .	. . . . . .	. . . . .	492
. . . . . .	87 89	2,560 35	. . . . . .	1½	6,500 00	. . . . . .	. . . . . .	. . . . .	421
. . . . . .	22 50	299 19	. . . . . .	. . . . . .	2,300 00	. . . . . .	. . . . . .	. . . . .	243
. . . . . .	30 79	961 48	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	248
. . . . . .	93 23	2,522 82	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	387
. . . . . .	8 65	565 89	. . . . . .	. . . . . .	2,100 00	. . . . . .	. . . . . .	. . . . .	140
. . . . . .	24 78	954 74	. . . . . .	. . . . . .	3,000 00	. . . . . .	. . . . . .	. . . . .	229
. . . . . .	$1,615 22	$84,967 80	$8,196 99	. . . . . .	$124,138 68	$1,600 00	$1,545 00	$3,400 00	7,957

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of twenty mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$17 25	$1,548 80	. . . . . .	4	$2,000 00	. . . . . .	. . . . . .	. . . . .	152
. . . . . .	19 74	1,920 60	. . . . . .	. . . . . .	2,600 00	. . . . . .	. . . . . .	. . . . .	261
. . . . . .	15 58	1,580 64	. . . . . .	. . . . . .	3,000 00	. . . . . .	. . . . . .	. . . . .	219
. . . . . .	20 42	1,944 72	. . . . . .	6	3,000 00	. . . . . .	. . . . . .	. . . . .	323
. . . . . .	19 34	2,419 40	. . . . . .	. . . . . .	20,000 00	$2,119 00	. . . . . .	. . . . .	461
. . . . . .	83 44	2,044 54	$650 00	. . . . . .	3,500 00	. . . . . .	. . . . . .	. . . . .	274
. . . . . .	16 35	1,689 50	. . . . . .	. . . . . .	1,500 00	. . . . . .	. . . . . .	. . . . .	304
. . . . . .	6 03	567 22	. . . . .	10	500 00	1,200 00	. . . . . .	. . . . .	87
. . . . . .	20 34	1,577 58	. . . . . .	. . . . . .	2,000 00	. . . . . .	. . . . . .	. . . . .	221
. . . . . .	1 83	847 30	. . . . . .	. . . . . .	3,000 00	. . . . . .	. . . . . .	. . . . .	30
. . . . . .	10 90	1,077 32	. . . . . .	. . . . . .	2,000 00	180 00	. . . . . .	. . . . .	215
. . . . . .	12 12	2,542 80	189 73	3	2,000 00	. . . . . .	. . . . . .	. . . . .	530
. . . . . .	$234 34	$19,760 42	$839 73	. . . . . .	$42,400 00	$3,499 00	. . . . . .	. . . . .	3,077

POTTER

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Abbott township, ...	$67,125 00	. . .	. . . .	10	$671 00	10	$671 00	5	$335 63
Allegheny township, . .	37,254 00	. . .	. . . .	13	484 70	30	1,117 62	8	299 54
Bingham township, . . .	51,000 00	. . .	. . . .	10	560 85	26	1,326 00	2	102 00
Clara township, ...	17,688 00	. . .	. . . .	13	386 11	30	530 64	. . .	. . . . .
Coudersport borough, . .	46,800 00	10	$468 80	15	1,534 61	. . .	. . . . . .	5	234 40
Eulalia township, ...	37,500 00	. . .	. . . .	10	405 00	30	759 00	10	782 00
Genesee township, . . .	37,964 00	. . .	. . . .	10	379 00	30	1,412 94	10	588 08
Harrison township, . . .	55,869 00	. . .	. . . .	10	898 82	8	446 95	8	446 95
Hebron township, ...	58,800 00	. . .	. . . .	10	731 00	20	1,176 00	10	588 00
Hector township, ...	24,270 00	. . .	. . . .	13	243 74	20	738 00	10	264 00
Homer township, ...	20,206 00	. . .	. . . .	12	313 36	2	511 28	. . .	. . . . .
Keating township, . . .	32,042 00	. .	*	. . .	. . . .	. . .	. . . . . .	. . .	. . . .
Oswego township, ...	52,838 00	. . .	. . . . . .	10	417 23	20	1,056 76	10	528 38
Pike township, ...	27,880 00	. . .	. . . .	13	1,293 70	10	109 46	. . .	. . . . .
Pleasant Valley township	19,044 00	. . .	. . . .	10	247 43	10	264 30	. . .	. . . . .
Lewisville borough, . . .	15,700 00	. . .	. . . .	26	508 65	. . .	. . . . . .	10	156 80
Portage township, ...	32,455 00	. . .	. . . .	10	343 55	20	300 44	. . .	. . . . .
Roulette township, . . .	38,590 00	. . .	. . . .	10	385 90	30	1,265 76	10	385 90
Sharon township, ...	43,041 00	. . .	. . . .	12½	834 24	50	2,152 05	10	430 41
Stewardson township, .	71,480 00	. . .	. . . .	5	411 40	20	1,429 60	. . .	. . . . .
Summit township, ...	42,000 00	. . .	. . . .	20	840 00	20	840 00	. .	. . . .
Sweden township, ...	37,039 00	. . .	. . . .	10	496 39	25	925 97	5	185 19
Sylvania township, . . .	24,261 00	. . .	. . . .	8	270 00	30	728 83	10	242 61
Ulysses township, ...	76,000 00	. . .	. . . .	8	771 80	25	1,561 88	6	456 00
West Branch township, .	65,153 00	. . .	. . . .	12½	701 17	20	1,117 32	. . .	. . . . .
Wharton township, . . .	51,768 00	. . .	. . . .	10	649 00	30	1,653 04	. . .	. . . . .
Total, ...	$1,083,767 00	. . .	$468 80	. . .	$14,778 65	. . .	$22,094 84	. . .	$6,025 89

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	......	$601 67	......	10	$4,125 00	.....	......	.....	142
....	$1 50	428 45	......	8	2,200 00	$468 50	......	.....	210
......	......	469 99	......	5	2,000 00	......	......	.....	214
......	75	172 66	......	5	700 00	450 00	......	.....	70
......	11 00	456 77	......	......	2,200 00	......	......	.....	227
......	......	476 26	......	5	2,500 00	718 00	......	.....	147
......	......	382 36	$259 78	......	2,650 00	3,259 33	......	.....	213
......	......	588 90	250 00	5	3,000 00	......	......	.....	300
......	......	483 03	230 85	......	8,000 00	2,350 00	......	.....	232
......	......	393 93	......	10	3,000 00	3,436 00	......	.....	223
......	......	252 58	157 00	......	1,600 00	122 40	......	.....	56
......	......	320 42	......	......	......	......	......	.....	41
......	......	426 72	300 00	6	4,000 00	318 00	......	.....	184
......	75	402 10	......	5	2,500 00	1,075 00	......	.....	87
......	......	190 71	......	......	800 00	150 00	......	.....	65
......	......	133 40	100 00	......	2,000 00	......	......	.....	117
......	......	301 64	......	......	1,400 00	......	......	.....	27
......	......	390 61	......	......	3,000 00	......	......	.....	181
......	......	430 60	......	5	3,500 00	1,779 00	.....	.....	303
......	......	714 80	......	......	2,000 00	......	......	.....	54
......	......	421 94	......	10	700 00	230 00	......	.....	49
.....	......	369 30	......	......	3,000 00	......	......	.....	137
......	.....	243 61	......	......	825 00	2,700 00	......	.....	65
......	......	779 76	......	5	2,500 00	5,000 00	.....	.....	190
......	......	577 40	......	......	4,000 00	5,650 00	......	.....	94
......	2 25	616 19	394 67	......	3,000 00	......	......	$2,000 00	104
......	$16 25	$11,482 31	$1,692 30	......	$65,200 00	$27,706 23	......	$2,000 00	3,732

SCHUYLKILL

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Ashland borough, ...	$1,245,850 00	10	$12,458 50	7	$8,730 50	. . .	. . . . . .	. . .	. . . . . .
Auburn borough, ...	133,000 00	2½	232 00	5½	632 00	. . .	. . . . . .	. . .	. . . . . .
Barry township, ...	256,280 00	. . .	. . . .	7	2,033 96	3	$768 84	. . .	. . . . . .
Blythe township, ...	1,333,390 00	. . .	. . . .	7	9,633 73	5	6,666 95	. . .	. . . . . .
Branch township, ...	262,619 00	. . .	. . . .	5	1,776 00	2½	760 76	. . .	. . . . . .
Brunswick, East, twp.,	573,170 00	. . .	. . . .	2	1,552 34	4	2,192 68	. . .	. . . . . .
Brunswick, West, twp.,	597,857 00	. . .	. . . .	2	1,456 71	4	2,391 43	. . .	. . . . . .
Butler township, ...	1,245,735 00	. . .	. . . .	6	8,285 41	3	3,737 20	. . .	. . . . . .
Cass township, ...	604,350 00	. . .	. . . .	13	8,593 55	4	2,417 40	. . .	. . . . . .
Cressona borough, . . .	305,075 00	2	649 59	11	4,045 00	. . .	. . . . . .	. . .	. . . . . .
Eldred township, ...	338,253 00	. . .	. . . .	3½	1,448 88	3	1,014 66	. . .	. . . . . .
Foster township, ...	279,448 00	. . .	. . . .	13	3,785 82	3	838 34	. . .	. . . . . .
Frailey township, ...	525,395 00	. . .	. . . .	5	2,928 98	4	2,101 58	. . .	. . . . . .
Frackville borough, . . .	223,986 00	5	1,119 93	10	2,239 86	6½	1,461 57	. . .	. . . . . .
Gilberton borough, . . .	612,920 00	5	3,064 00	12	7,355 00	. . .	. . . . . .	. . .	. . . . . .
Girardville borough, . .	357,758 00	10	3,577 58	11	3,935 35	. . .	. . . . . .	. . .	. . . . . .
Hegins township, ...	605,350 00	. . .	. . . .	1½	1,205 02	5	3,026 75	. . .	. . . . . .
Hubley township, ...	219,427 00	. . .	. . . .	3	810 28	3	658 28	. . .	. . . . . .
Kline township, ...	402,350 00	. . .	. . . .	8	3,218 80	4	1,609 40	. . .	. . . . . .
Mount Carbon borough,	61,605 00	. . .	. . . .	6	369 63	. . .	. . . . . .	. . .	. . . . . .
Middleport borough, . .	47,645 00	. . .	. . . .	13	619 39	. . .	. . . . . .	. . .	. . . . . .
Mahantongo township, .	214,182 00	. . .	. . . .	3	801 55	3	642 55	. . .	. . . . . .
Minersville borough, . .	545,132 00	7	5,163 25	7	5,163 25	. . .	. . . . . .	. . .	. . . . . .
North Manheim township	607,759 00	. . .	. . . .	3	1,823 27	4	2,431 00	. . .	. . . . . .
South Manheim township	288,385 00	. . .	. . . .	3½	1,198 35	3	865 16	. . .	. . . . . .
East Mahanoy township,	1,134,520 00	. . .	. . . .	13	14,610 60	5	5,672 60	5	$2,269 40
West Mahanoy township,	857,340 00	. . .	*	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . . .
Mahanoy City borough, .	971,260 00	. . .	*	7	8,544 82	. . .	. . . . . .	. . .	. . . . . .
New Philadelphia bor., .	636,055 00	3	198 00	10	630 55	. . .	. . . . . .	. . .	. . . . . .
New Castle township, . .	339,800 00	. . .	. . . .	12	4,077 62	8	2,718 41	. . .	. . . . . .
Norwegian township, . .	430,265 00	. . .	. . . .	5	2,468 33	3	1,290 79	. . .	. . . . . .
Norwegian, East, twp.,	245,340 00	. . .	. . . .	7	1,917 38	2	490 68	. . .	. . . . . .
Orwigsburg borough, . .	115,407 00	2	230 00	4	900 00	. . .	. . . . . .	. . .	. . . . . .
Pottsville borough, . . .	5,534,021 75	4½	24,903 10	5½	30,437 12	. . .	. . . . . .	. . .	. . . . . .
Palo Alto borough, . . .	364,400 00	5½	2,005 79	7	2,571 67	. . .	. . . . . .	. . .	. . . . . .
Port Carbon borough, .	465,178 00	6	2,791 06	7½	3,567 35	. . .	. . . . . .	. . .	. . . . . .
Port Clinton borough, .	52,835 00	. . .	*	10	693 35	. . .	. . . . . .	. . .	. . . . . .
Pine Grove borough, . .	220,100 00	. . .	. . . .	10	2,200 00	. . .	. . . . . .	. . .	. . . . . .
Pine Grove township, .	478,379 00	. . .	. . . .	1½	1,530 72	3	1,408 85	. . .	. . . . . .
Porter township, ...	522,635 00	. . .	. . . .	4	2,545 54	4	2,090 54	. . .	. . . . . .
Rush township, ...	340,000 00	. . .	. . . .	4	1,900 00	8	2,520 00	. . .	. . . . . .
Rahn township, ...	619,633 00	. . .	. . . .	7	5,080 68	7	4,337 41	. . .	. . . . . .
Ryan township, ...	107,130 00	. . .	. . . .	5	535 65	10	1,071 30	. . .	. . . . . .
Reilly township, ...	524,205 00	. . .	. . . .	6½	3,407 33	1½	786 37	. . .	. . . . . .
Schuylkill township, . .	492,415 00	. . .	. . . .	6	3,277 50	3	1,477 24	. . .	. . . . . .
St. Clair borough, ...	577,935 00	. . .	*	7	5,068 54	. . .	. . . . . .	. . .	. . . . . .
Schuylkill Haven, ...	707,019 00	3½	2,610 00	4½	3,262 20	. . .	. . . . . .	. . .	. . . . . .
Shenandoah borough, . .	1,509,291 00	7½	11,324 70	10	15,092 91	. . .	. . . . . .	. . .	. . . . . .
Tamaqua borough, . . .	1,454,620 00	5	7,273 15	6	8,847 42	. . .	. . . . . .	. . .	. . . . . .
Tremont borough, ...	311,920 00	4	1,530 24	7½	2,870 75	. . .	. . . . . .	. . .	. . . . . .
Tremont township, .	384,940 00	. . .	. . . .	7	2,694 58	4	1,539 76	. . .	. . . . . .
Union township, ...	421,251 00	. . .	. . . .	2	897 64	6	2,707 65	. . .	. . . . . .
North Union township, .	230,915 00	. . .	. . . .	4	1,087 66	3	692 74	. . .	. . . . . .
East Union township, . .	264,266 00	. . .	. . . .	. . .	None.	5	1,321 33	. . .	. . . . . .
Washington township, .	354,720 00	. . .	. . . .	2	736 43	7	2,482 93	. . .	. . . . . .
Wayne township, ...	436,760 00	. . .	. . . .	5	2,520 80	4	1,747 04	. . .	. . . . . .
West Penn township, . .	756,890 00	. . .	. . . .	3	2,788 67	5	3,784 45	. . .	. . . . . .
Yorkville borough, . . .	155,895 00	. . .	*	4	765 58	. . .	. . . . . .	. . .	. . . . . .
Total, ...	33,904,261 75	. . .	$79,130 89	. . .	$221,162 02	. . .	$71,724 64	. . .	$2,269 40

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of six and one half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$55 35	$8,059 02	$4,800 00	......	$30,000 00	$91,466 00	$63,244 96	......	1,379
......	7 65	881 63	......	......	1,500 00	......	......	......	162
......	14 32	1,828 00	......	......	6,000 00	......	......	......	240
......	......	8,958 88	......	......	10,000 00	......	......	......	300
......	4 40	2,080 88	......	......	10,000 00	......	......	......	216
......	57 40	4,044 43	......	......	4,000 00	......	......	......	406
......	65 60	4,061 90	......	......	1,000 00	......	......	......	261
......	12 50	8,903 47	......	......	20,000 00	......	......	......	811
......	3 05	4,817 47	......	......	15,000 00	......	......	......	737
......	13 50	1,955 72	1,175 00	......	4,500 00	......	750 00	......	319
......	43 95	2,399 49	......	......	6,000 00	......	......	......	265
......	1 60	2,027 01	......	......	3,000 00	......	......	......	153
......	5 25	3,828 46	......	......	7,000 00	......	......	......	302
......	7 25	1,397 14	......	......	10,000 00	......	......	......	410
......	14 60	3,982 16	1,000 00	......	12,200 00	......	......	$600 00	708
......	10 10	2,324 36	6,000 00	......	10,000 00	3,000 00	1,000 00	......	624
......	64 05	4,163 58	......	......	5,000 00	......	......	......	297
......	23 52	1,560 82	......	......	4,000 00	......	......	......	152
......	5 90	3,517 70	500 00	......	4,800 00	......	......	......	341
......	2 20	398 84	......	......	600 00	......	......	......	112
......	3 00	315 05	......	......	800 00	......	......	......	53
......	41 02	1,489 03	......	......	7,000 00	......	......	......	159
......	27 25	4,650 88	1,200 00	......	36,000 00	6,000 00	7,000 00	......	756
......	38 10	4,090 93	......	......	7,000 00	......	......	......	512
......	25 10	1,977 20	......	......	7,000 00	......	......	......	189
......	......	7,797 45	......	......	37,000 00	......	......	......	804
......	1 50	6,537 63	......	......	......	......	......	......	693
......	55 55	8,680 49	......	......	30,000 00	......	......	......	1,746
......	......	424 58	350 00	......	400 00	150 00	......	......	96
......	1 35	2,699 04	564 32	2	600 00	......	......	......	428
......	1 50	3,060 94	......	......	4,000 00	......	......	......	317
......	......	1,780 28	......	......	4,000 00	......	......	......	200
......	25 25	1,354 40	......	......	3,000 00	......	......	......	257
......	347 52	34,872 60	60,820 46	......	180,000 00	30,379 95	23,472 00	......	3,841
......	27 20	2,075 77	......	......	900 00	1,103 17	......	......	338
......	25 55	3,010 70	14,163 70	......	25,000 00	8,970 65	......	......	706
......	9 40	508 20	......	......	5,000 00	......	......	......	165
......	31 85	1,402 62	......	......	10,000 00	......	......	......	243
......	23 40	3,285 65	......	1½	10,500 00	......	......	......	520
......	3 07	3,993 50	......	......	8,000 00	......	......	......	455
......	21 75	3,364 80	......	......	10,000 00	500 00	......	......	352
......	3 15	4,023 14	......	......	2,800 00	......	......	......	469
......	5 20	817 83	......	......	1,700 00	......	......	......	111
......	2 25	4,283 34	......	......	7,000 00	......	......	......	370
......	23 10	3,432 10	......	......	10,000 00	......	......	......	323
......	68 70	5,148 22	......	......	25,000 00	......	......	......	1,023
......	31 90	4,594 55	......	......	10,500 00	......	......	......	797
......	29 40	10,128 96	32,247 00	......	50,000 00	29,700 00	8,900 00	......	1,543
......	93 45	9,588 11	24,200 00	......	40,000 00	38,650 00	91,681 69	......	1,595
......	13 75	2,483 10	24 87	......	4,500 00	......	50 00	......	528
......	4 40	4,699 56	......	......	5,000 00	......	......	......	175
......	34 05	4,012 84	......	1⅛	10,000 00	......	......	......	289
......	5 50	1,604 62	......	......	5,000 00	......	......	......	164
......	4 00	1,706 12	......	......	4,800 00	......	......	......	166
......	13 80	2,372 07	......	2	3,000 00	......	......	......	311
......	63 85	3,012 49	......	......	10,000 00	......	......	......	337
......	69 45	5,296 46	......	......	15,000 00	......	......	......	515
......	80	1,209 29	......	......	2,000 00	......	......	......	142
......	$1,588 30	$236,975 58	$147,045 35	......	$757,100 00	$209,919 77	$196,098 65	$600 00	29,883

SNYDER

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Adams township,	$181,856 00	...	......	5	$1,133 28	7	$1,272 99	...	.....
Beaver township,	260,618 00	...	......	3½	1,279 16	3	781 85	...	.....
West Beaver township,	261,547 00	...	......	4	1,450 97	3	1,186 24	...	.....
Centre township,	173,624 00	...	......	6	1,337 74	8	1,389 00	...	.....
Chapman township,	150,904 00	...	......	4	698 00	8	1,190 00	3½	$435 00
Franklin township,	293,139 00	...	......	4	1,553 56	4	1,172 56	...	.....
Jackson township,	184,767 00	...	......	3	790 30	7	1,293 37	...	.....
Monroe township,	285,000 00	...	......	3	1,158 00	4½	1,222 00	2⅓	604 00
Middleburg borough,	86,957 00	...	*	5	582 78	...	......	...	.....
Middle Creek township,	167,763 00	...	......	3	727 30	8	1,342 10	...	.....
Penn township,	153,805 00	...	......	2½	1,138 21	7	2,784 58	1	375 00
Perry township,	168,416 00	...	......	5	1,025 00	7½	1,530 00	4½	642 00
West Perry township,	132,088 00	...	......	3½	463 90	7	727 80	...	.....
Selinsgrove borough,	258,465 00	...	*	9	2,775 18	...	......	...	.....
Union township,	167,309 00	...	......	5¼	1,211 37	7	1,171 16	...	....
Washington township,	293,856 00	...	......	3½	1,498 50	4	1,175 42	...	.....
Total,	$3,220,114 00	...	.....	...	$18,822 25	..	$18,239 07	...	$2,056 00

SOMERSET

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Addison township,	$244,600 00	...	......	4	$1,313 72	7	$1,739 93	...	.....
Allegheny township,	103,449 00	...	......	7	984 14	5	517 24	...	.....
Brothers' Valley twp.,	440,000 00	...	......	2½	1,425 00	3½	1,215 00	...	.....
Berlin borough,	82,814 00	3½	$289 84	7	666 83	...	......	...	.....
Confluence borough,	52,000 00	5	260 00	7	375 00	...	......	...	.....
Conemaugh township,	253,793 00	...	......	3	1,490 72	...	1,250 00	...	.....
Elk Lick township,	220,000 00	...	......	7	1,823 00	7	1,500 00	...	.....
Greenville township,	72,881 00	...	......	10	870 81	10	728 81	...	.....
Jefferson township,	173,312 00	...	......	4	849 18	5	866 56	...	.....
Jenner township,	358,267 00	...	......	7½	3,096 00	7	2,507 87	...	.....
Jennerville borough,	12,825 00	...	*	13	189 72	...	......	...	.....
Larimer township,	51,699 00	...	......	6	471 32	10	516 99	...	.....
Lower Turkey Foot twp.,	132,848 00	...	......	5	709 00	7	1,230 00	...	.....
Middle Creek township,	103,539 00	...	......	3½	377 00	9¾	1,100 00	...	.....
Milford township,	357,534 00	...	......	6	3,120 00	7	2,502 00	...	.....
Myersdale borough,	120,367 00	6	722 00	8	962 00	...	......	...	.....
Northampton township,	96,752 00	...	......	8	962 02	9	870 76	...	.....
New Centreville bor.,	21,090 00	7	166 55	14	314 60	...	......	...	.....
New Baltimore borough,	14,920 00	...	*	8	158 36	...	......	...	.....
Paint township,	139,818 00	...	......	6	1,118 54	8	1,118 00	...	.....
Quemahoning township,	296,342 00	...	......	4½	1,333 00	3½	1,166 84	...	.....
Shade township,	200,000 00	...	......	5	1,252 54	7	1,400 00	...	.....
Stoystown borough,	34,385 00	3	102 00	7	242 68	...	......	...	.....
Southampton township,	82,971 00	...	......	7	732 80	10	829 71	...	.....
Stony Creek township,	296,951 00	...	......	4	1,187 80	6	1,700 00	...	.....
Summit township,	280,183 00	...	......	6	2,076 10	...	......	...	.....
Salisbury borough,	43,960 00	5	219 80	8	402 00	...	......	...	.....
Somerset township,	482,657 00	...	......	5	2,413 28	4⅝	2,261 17	...	.....
Somerset borough,	205,210 00	5	1,071 84	6	1,666 44	...	......	...	.....
Ursina borough,	63,000 00	5	315 00	9	567 00	...	......	...	.....
Upper Turkey Foot twp.,	195,000 00	...	......	3½	863 35	4	760 00	...	.....
Wellersburg borough,	30,207 00	...	*	10	377 07	...	......	...	...
Total,	$5,263,374 00	...	$3,147 03	...	$34,391 02	...	$25,780 88	...	.....

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of three and a half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$34 10	$636 50	. . . . . .	. . . . . .	$5,000 00	. . . . . .	. . . . . .	. . . . .	224
. . . . . .	59 68	912 16	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	367
. . . . . .	64 22	971 27	. . . . . .	5	5,000 00	. . . . . .	. . . . . .	. . . . .	357
. . . . . .	32 95	607 68	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	296
. . . . . .	54 45	516 55	. . . . . .	. . . . . .	4,000 00	$500 00	. . . . . .	. . . . .	288
. . . . . .	20 57	1,025 97	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	381
. . . . . .	31 36	646 68	. . . . . .	. . . . . .	3,500 00	. . . . . .	. . . . . .	. . . . .	236
. . . . . .	34 38	961 66	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	382
. . . . . .	26 35	304 35	. . . . . .	. . . . . .	1,500 00	. . . . . .	. . . . . .	. . . . .	148
. . . . . .	29 48	597 17	. . . . . .	. . . . . .	2,800 00	. . . . . .	. . . . . .	. . . . .	224
. . . . . .	79 49	1,358 40	. . . . . .	. . . . . .	5,000 00	100 00	. . . . . .	. . . . .	421
. . . . . .	32 15	657 70	. . . . . .	. . . . . .	2,900 00	. . . . . .	. . . . . .	. . . . .	311
. . . . . .	42 33	462 31	. . . . . .	. . . . . .	3,800 00	. . . . . .	. . . . . .	. . . . .	227
. . . . . .	56 08	904 63	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	448
. . . . . .	25 70	585 58	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	333
. . . . . .	58 18	1,028 50	. . . . . .	. . . . . .	7,000 00	. . . . . .	. . . . . .	. . . . .	470
. . . . . .	$681 47	$12,167 22	. . . . . .	. . . . . .	$72,500 00	$600 00	. . . . . .	. . . . .	5,113

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of seven mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$179 75	$1,532 44	. . . . . .	. . . . . .	$7,500 00	. . . . . .	. . . . . .	. . . . .	353
. . . . . .	61 00	852 12	. . . . . .	. . . . . .	4,000 00	. . . . . .	. . . . . .	. . . . .	260
. . . . . .	207 38	3,033 98	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	375
. . . . . .	80 15	580 93	$3,800 00	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	192
. . . . . .	32 06	340 92	. . . . . .	. . . . . .	1,000 00	$600 00	$800 00	. . . . .	98
. . . . . .	137 97	1,790 30	. . . . . .	2	4,000 00	. . . . . .	. . . . . .	. . . . .	284
. . . . . .	127 95	2,123 85	. . . . . .	1	4,500 00	. . . . . .	. . . . . .	. . . . .	281
. . . . . .	68 44	510 17	. . . . . .	. . . . . .	2,700 00	. . . . . .	. . . . . .	. . . . .	142
. . . . . .	66 74	1,159 00	. . . . . .	. . . . . .	2,800 00	. . . . . .	. . . . . .	. . . . .	188
. . . . . .	181 48	2,507 87	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	409
. . . . . .	7 37	89 77	. . . . . .	. . . . . .	500 00	. . . . . .	. . . . . .	. . . . .	23
. . . . . .	25 28	361 89	. . . . . .	. . . . . .	2,000 00	. . . . . .	. . . . . .	. . . . .	168
. . . . . .	49 67	882 91	. . . . . .	. . . . . .	2,700 00	. . . . . .	. . . . . .	. . . . .	200
. . . . . .	46 65	740 81	. . . . . .	. . . . . .	1,200 00	. . . . . .	. . . . . .	. . . . .	147
. . . . . .	148 09	2,469 17	. . . . . .	. . . . . .	9,100 00	. . . . . .	. . . . . .	. . . . .	360
. . . . . .	75 41	972 24	. . . . . .	. . . . . .	8,000 00	4,500 00	. . . . . .	. . . . .	295
. . . . . .	44 13	677 26	. . . . . .	. . . . . .	3,800 00	. . . . . .	. . . . . .	. . . . .	188
. . . . . .	13 31	153 21	160 00	. . . . . .	1,200 00	. . . . . .	. . . . . .	. . . . .	51
. . . . . .	10 24	104 44	. . . . . .	. . . . . .	500 00	. . . . . .	. . . . . .	. . . . .	39
. . . . . .	59 00	881 62	. . . . . .	2	2,550 00	. . . . . .	. . . . . .	. . . . .	236
. . . . . .	112 91	1,826 16	1,826 00	. . . . . .	6,000 00	. . . . . .	. . . . . .	. . . . .	283
. . . . . .	83 83	1,349 67	. . . . . .	. . . . . .	2,200 00	. . . . . .	. . . . . .	. . . . .	308
. . . . . .	23 85	279 80	. . . . . .	. . . . . .	800 00	. . . . . .	. . . . . .	. . . . .	90
. . . . . .	44 74	580 80	. . . . . .	. . . . . .	3,300 00	. . . . . .	. . . . . .	. . . . .	152
. . . . . .	120 72	2,014 68	. . . . . .	. . . . . .	8,000 00	. . . . . .	. . . . . .	. . . . .	378
. . . . . .	153 55	1,961 28	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	395
. . . . . .	23 19	349 83	945 00	. . . . . .	3,000 00	50 00	. . . . . .	. . . . .	112
. . . . . .	261 05	3,730 23	. . . . . .	. . . . . .	9,200 00	57 55	. . . . . .	. . . . .	723
. . . . . .	193 29	1,376 94	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	357
. . . . . .	20 00	364 88	3,900 00	. . . . . .	5,500 00	75 00	8,000 00	. . . . .	101
. . . . . .	71 35	1,287 67	. . . . . .	. . . . . .	3,000 00	. . . . . .	. . . . . .	. . . . .	209
. . . . . .	25 82	211 45	. . . . . .	. . . . . .	1,100 00	. . . . . .	. . . . . .	. . . . .	75
. . . . . .	$2,766 35	$37,098 29	$10,631 00	. . . . . .	$137,650 00	$5,282 55	$8,800 00	. . . . .	7,473

SULLIVAN

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Cherry,	$108,733 00	...	......	13	$2,130 50	20	$2,174 00	...	.....
Colley,	55,921 00	...	......	8	565 37	25	1,398 02	...	.....
Davidson,	115,587 00	...	......	10	1,345 87	10	1,155 87	...	.....
Dushore borough,	42,118 00	...	*	10	552 18	...	......	...	.....
Elkland,	61,000 00	...	......	10	732 00	15	915 00	3	$183 00
Forks,	54,650 00	...	......	12	655 80	25	1,366 28	...	.....
Fox,	47,092 00	...	......	10	427 00	20	941 84	...	.....
Hill's Grove,	38,490 00	...	......	3	115 47	30	1,539 60	...	.....
Laporte,	65,000 00	.	......	13	900 00	...	......	...	.....
Laporte borough,	16,984 00	10	$169 84	13	223 32	..	......	...	.....
Shrewsbury,	58,453 00	...	......	10	678 53	25	1,461 32	...	.....
Total,	$664,028 00	...	$169 84	..	$8,326 04	...	$10,951 93	...	$183 00

SUSQUEHANNA

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Apolacon,	$49,890 00	...	......	13	$648 57	10	$498 90	...	$20 00
Ararat,	34,400 00	...	......	12	412 00	10	344 00	...	.....
Anburn,	202,226 00	...	......	6	2,902 78	10½	2,123 30	6	2,426 71
Bridgewater,	223,206 00	...	......	5	1,470 93	10	2,232 06	4	886 69
Brooklyn,	130,000 00	...	......	2	808 00	10	1,300 00	5	650 00
Choconut,	57,162 00	...	......	7	524 49	15	867 43	2	114 32
Clifford,	148,265 00	...	......	11	1,630 90	10	1,482 65	2½	370 66
Dimock,	137,500 00	...	......	8	1,349 63	14	1,810 69	5	641 00
Dundaff,	15,835 00	5	79 00	10	208 85	...	......	...	.....
Forest Lake,	115,561 00	...	......	8	1,081 35	10	1,169 38	6	701 90
Franklin,	107,000 00	...	......	5	1,300 00	10	1,070 00	2	214 00
Friendsville,	17,490 00	...	*	10	248 90	...	......	...	.....
Gibson,	169,871 00	...	......	11	2,273 00	10	1,698 71	5	849 36
Great Bend township,	99,885 00	...	......	11	1,300 00	10	988 40	5	492 30
Great Bend borough,	50,800 00	4	657 40	23	1,420 06	3	151 10	...	.....
Bor. of Gt. Bend Village,	217,780 00	5	1,088 90	13	2,994 14	...	......	2	435 56
Harford,	147,408 00	...	......	12	2,130 47	12½	1,842 60	10	1,474 08
Harmony,	121,163 00	...	......	10	1,643 63	10	1,211 63	5	605 81
Herrick,	93,587 00	...	......	6	812 52	10	932 00	6	559 24
Jackson,	131,893 00	...	......	5	1,000 00	10	1,318 93	3	395 68
Jessup,	98,000 00	...	......	7	678 84	10	980 00	2½	245 00
Lathrop,	85,012 00	...	......	8	680 00	18	1,550 00	10	850 00
Lenox,	172,000 00	...	......	8	1,720 00	10	1,720 00	8	1,376 00
Little Meadow,	16,070 00	15	241 00	5	80 35	...	......	...	.....
Liberty,	95,537 00	...	......	10	1,307 37	10	955 37	...	.....
Middletown,	96,901 00	...	......	7	678 31	12	1,162 81	3	290 70
Montrose,	195,749 00	...	......	10	2,657 69	10	2,000 00	...	.....
New Milford township,	189,472 00	..	......	8	1,515 78	15	2,842 00	5	947 36
New Milford borough,	80,767 00	5	483 00	17	1,548 00	...	......	5	483 83
Oakland,	75,686 00	...	......	13	945 23	10	726 00	12½	946 00
Rush,	111,643 00	...	......	10	2,100 00	10	1,116 43	6	673 52
Silver Lake,	96,649 00	...	......	13	1,460 00	7	676 54	3	289 94
Springville,	129,245 00	...	......	6	1,173 47	10	1,295 45	...	.....
Susquehanna Depot,	157,050 00	20	3,141 00	14	3,010 00	12½	1,963 00	...	.....
Thomson township,	45,883 00	...	......	13	596 47	10	458 83	5	229 41
Thomson borough,	10,490 00	...	*	10	198 90	...	......	...	.....
Total,	$3,927,076 00	...	$5,690 30	...	$46,510 63	...	$38,485 28	..	$17,169 07

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	......	$1,179 52	......	......	$4,000 00	......	......	......	560
......	$2 00	559 21	......	......	1,200 00	......	......	......	118
......	4 00	1,031 40	......	......	2,400 00	......	......	......	190
......	3 50	421 18	......	......	1,000 00	......	......	......	131
......	1 60	656 78	......	2	2,800 00	......	......	......	218
......	2 55	721 49	......	......	4,700 00	......	......	......	255
......	......	459 70	......	......	1,000 00	......	......	......	166
......	4 58	404 10	......	......	700 00	$800 00	......	......	73
......	......	656 70	......	2	1,500 00	......	......	......	125
......	7 30	155 84	18 25	......	1,500 00	50 00	......	......	69
......	1 50	584 53	......	......	600 00	......	......	......	94
......	$27 30	$6,830 45	$18 25	......	$21,400 00	$850 00	......	......	1,999

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of ten mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$0 80	$498 77	$250 00	5	$2,000 00	......	......	......	141
......	5 50	339 75	......	2	3,600 00	......	......	......	188
......	1 70	2,022 26	500 00	6	9,000 00	......	......	$1,600 00	480
......	91	2,172 24	......	......	6,000 00	......	......	......	453
......	2 93	1,313 60	......	2	2,500 00	......	......	......	329
......	2 53	571 62	......	......	1,000 00	$400 00	......	......	135
......	4 03	1,484 65	......	......	3,000 00	......	......	......	423
......	24 79	1,385 33	......	3	7,000 00	......	......	......	316
......	56	157 75	......	......	800 00	......	......	400 00	70
......	3 38	1,154 57	......	......	1,800 00	......	......	......	297
......	6 72	1,051 53	......	5	4,000 00	......	......	......	281
......	2 51	1,174 90	......	......	400 00	......	......	......	74
......	39 54	1,755 45	......	......	5,000 00	......	......	......	406
......	10 45	988 40	......	......	4,500 00	......	......	......	324
......	7 61	508 00	400 00	......	4,000 00	......	......	......	298
......	4 07	217 78	......	......	1,000 00	......	......	......	163
......	3 84	1,474 08	......	......	10,000 00	......	......	......	420
......	54 43	1,160 00	......	......	4,000 00	......	......	......	452
......	1 64	932 07	......	......	2,000 00	......	......	......	288
......	38	1,318 55	......	......	6,000 00	......	......	......	330
......	1 80	920 80	......	......	2,400 00	......	......	......	222
......	2 76	850 12	......	......	1,200 00	800 00	......	......	331
......	10 63	1,504 61	......	2	2,000 00	......	......	......	460
......	......	169 11	......	......	500 00	......	......	......	55
......	1 06	955 37	......	......	4,000 00	......	......	......	352
......	28 73	890 58	......	......	2,400 00	100 00	......	......	233
......	122 16	1,957 49	800 00	2	1,500 00	......	......	......	511
......	3 28	1,894 70	......	3	6,000 00	......	......	......	542
......	24 21	807 40	......	......	2,000 00	......	......	......	253
......	10 97	772 60	......	2	2,250 00	1,000 00	......	......	558
......	1 72	1,116 01	......	......	9,100 00	500 00	......	......	417
......	1 72	1,008 41	......	7	3,000 00	......	......	......	302
......	3 16	1,292 45	......	......	4,000 00	......	......	......	398
......	53 05	1,570 50	......	......	9,000 00	......	......	......	954
......	75	457 44	......	2	650 00	350 00	......	......	173
......	2 16	104 90	......	......	500 00	......	......	......	94
......	$447 85	$36,960 99	$1,950 00	......	$128,100 00	$3,150 00	......	$2,000 00	11,723

TIOGA

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Bloss township,	$147,747	...	......	6	$1,126 22	8	$1,471 00	...	.....
Blossburg,	178,810	15	$2,684 66	26	4,753 20	...	......	...	.....
Brookfield,	188,051	...	......	5	1,225 26	10	1,880 51	...	.....
Charleston,	435,982	...	......	6	3,095 52	5	2,179 91	...	.....
Chatham,	328,239	...	......	5	2,027 00	3	964 05	...	.....
Clymer,	185,108	...	......	8	1,480 86	10	1,851 08	...	.....
Covington,	216,424	...	......	8	1,941 02	10	2,164 00	...	.....
Covington borough,	41,914	...	*	7½	464 36	...	......	...	.....
Deerfield,	172,965	...	......	5	1,048 80	10	1,729 65	...	.....
Delmar,	584,519	...	......	7	3,235 61	11	4,229 71	...	.....
Duncan,	100,908	...	......	13	1,601 80	10	1,009 08	...	.....
Elk,	68,973	...	......	11	758 70	10	689 73	...	.....
Elkland,	72,125	...	......	10	843 25	10	721 25	...	.....
Fall Brook borough,	72,073	...	443 41	...	769 73	...	......	...	.....
Farmington,	232,724	...	......	4	930 00	6	1,396 34	...	.....
Gaines,	48,026	...	......	5	631 49	10	1,064 10	...	.....
Hamilton,	103,270	..	......	5	626 80	7	722 89	...	.....
Jackson,	292,706	...	......	7½	2,670 74	15	4,584 63	...	.....
Knoxville borough,	59,877	...	*	13	923 40	...	......	...	.....
Lawrenceville borough,	62,925	5	314 62	3¼	586 00	...	......	...	.....
Lawrence,	146,000	...	......	7	1,022 00	12½	1,825 00	...	.....
Liberty,	266,666	...	......	5	1,735 46	5	1,333 33	...	.....
Mansfield,	111,520	10	1,115 20	10	1,115 20	...	......	...	.....
Mainsburg borough,	38,363	12	460 35	7½	281 71	...	......	...	.....
Middleburg,	243,299	...	......	5	1,668 36	9	2,189 69	...	.....
Morris,	62,472	...	......	5	748 00	10	624 72	...	.....
Nelson,	76,252	...	......	10	1,500 00	5	381 26	...	.....
Osceola,	97,600	...	......	6	595 60	4	380 40	...	.....
Richmond,	262,230	...	......	5	2,670 78	10	3,148 56	...	.....
Rutland,	273,960	...	......	5	1,369 80	5	1,369 80	...	.....
Shippen,	99,568	...	......	10	995 68	10	995 68	...	.....
Sullivan,	557,157	...	......	4	1,599 48	5	1,785 78	...	.....
Tioga,	253,785	...	......	5	1,330 00	5	1,268 92	...	.....
Tioga borough,	102,118	5	509 92	12½	1,434 29	...	......	...	.....
Union,	213,188	...	......	6	1,671 15	10	2,073 66	...	.....
Ward,	82,389	...	......	7	576 00	10	823 00	...	.....
Westfield,	160,773	...	......	6	1,254 64	10	1,607 73	...	.....
Westfield borough,	64,170	...	*	13	1,004 21	...	......	...	.....
Wellsborough,	371,253	8	3,532 07	16	8,116 73	...	......	...	.....
Total,	$6,676,129	...	$9,060 23	...	$61,428 85	...	$46,465 46	...	.....

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of eight mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$58 33	$1,296 62	......	......	$2,500	......	......	.....	497
......	66 72	1,457 10	$9,000 00	......	13,800	$3,000 00	$500 00	.....	642
......	59 82	1,504 40	......	......	3,200	......	......	.....	285
......	134 55	3,614 65	......	......	5,000	......	......	.....	590
......	90 96	2,625 91	......	......	5,000	......	......	.....	483
......	64 97	1,558 96	1,005 75	2	3,000	892 78	......	$2,565 89	314
......	61 67	1,736 68	......	3	3,600	400 00	......	.....	360
......	12 82	335 31	......	......	1,000	......	......	.....	150
......	41 79	1,383 72	......	......	2,400	......	......	.....	184
......	113 97	3,361 92	......	2	8,000	......	......	.....	705
......	35 39	807 26	......	......	1,200	......	......	.....	290
......	7 43	594 58	......	......	2,000	2,400 00	......	.....	64
......	24 42	577 00	......	......	1,200	......	......	.....	122
......	15 88	576 58	1,169 79	......	1,200	......	......	.....	90
......	56 73	1,863 83	......	......	3,500	......	......	.....	285
......	20 21	769 46	......	......	2,700	538 14	......	.....	160
.....	39 13	1,077 54	......	......	1,800	479 14	......	.....	309
.....	96 43	2,350 00	......	......	4,500	......	......	.....	546
......	22 95	479 02	.....	......	1,000	......	......	.....	145
......	14 07	513 07	......	......	2,500	......	......	.....	150
......	38 44	1,262 68	......	4	4,000	500 00	......	.....	350
......	77 49	2,440 43	......	......	5,000	......	......	.....	440
......	31 16	903 52	......	10	1,800	......	350 00	.....	330
......	12 92	300 53	......	......	800	......	175 00	.....	82
......	82 16	2,106 40	......	......	5,000	......	......	.....	508
......	19 04	822 27	......	......	2,400	8,000 00	......	.....	175
......	32 25	690 49	1,134 62	10	3,750	300 00	......	.....	180
......	25 75	632 89	......	......	3,000	......	......	.....	160
......	88 46	2,672 15	......	2	6,000	......	......	.....	470
......	64 60	1,923 14	......	......	2,000	......	......	.....	320
......	13 50	787 37	......	......	2,200	1,077 00	......	.....	100
......	113 16	2,934 05	......	......	3,000	......	......	.....	405
......	50 72	2,009 68	......	......	2,400	......	......	.....	385
......	48 14	820 03	......	......	1,800	1,084 00	2,971 00	.....	180
......	70 62	1,862 53	......	......	6,000	......	......	.....	445
......	17 97	673 84	......	......	1,200	......	......	.....	130
......	41 61	1,286 18	......	......	3,200	......	......	.....	290
......	30 41	513 36	.....	......	1,000	......	......	.....	170
......	103 80	2,981 73	32,000 00	....	20,000	2,000 00	3,000 00	.....	584
......	$2,012 06	$56,208 58	$44,310 16	......	$143,650	$20,671 06	$6,996 00	$2,565 89	12,124

UNION

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Buffalo township, ...	$689,441 00	. . .	. . . .	2	$1,878 88	3	$2,068 32	. . .	. . . . .
East Buffalo township, .	371,978 00	. . .	. . . .	1½	858 00	2	743 96	. . .	. . . . .
West Buffalo township, .	330,472 00	. . .	. . . .	6	2,257 34	. . .	. . . .	. . .	. . . . .
Gregg township, ...	208,939 00	. . .	. . . .	4½	1,109 22	2	417 88	. . .	. . . . .
Hartley township, ...	350,000 00	. . .	. . . .	4	1,300 00	6½	1,400 00	6	$1,200 00
Hartleton borough, . . .	61,856 00	1½	100 00	3	256 00	. . .	. . . .	. . .	. . . . .
Kelly township, ...	445,372 00	. .	. . . . . .	2	1,129 74	2	890 74	. . .	. . . . .
Limestone township, . .	342,467 00	. . .	. . . .	3	1,181 50	2⅛	716 25	. . .	. . . . .
Lewis township, ...	255,135 00	. . .	. . . . . .	2½	854 84	3	765 40	. . .	. . . . .
Lewisburg, ...	621,844 00	. . .	*	8	5,740 75	. . .	. . . .	. . .	. . . . .
Mifflinburg, ...	157,000 00	9	2,311 34	7	1,469 00	. . .	. . . .	. . .	. . . . .
New Berlin borough, . .	87,687 00	. . .	*	2¾	417 14	. . .	. . . .	. . .	. . . . .
Union township, ...	849,761 00	. . .	. . . .	2	2,000 12	2	1,877 55	. . .	. . . . .
White Deer township, . .	387,770 00	. . .	. . . .	4½	1,750 00	. . .	. . . .	2½	800 00
Total, ...	$5,159,722 00	. . .	$2,411 34	. . .	$22,202 53	. . .	$8,880 10	. . .	$2,000 00

VENANGO

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Allegheny township, . .	$403,000 00	. . .	. . . .	3	$1,611 99	3	1,051 64	. . .	. . . . .
Cornplanter township, .	874,366 00	. . .	. . . .	13	13,231 76	3	2,623 10	. . .	. . . . .
Cranberry township, . .	819,186 00	. . .	. . . .	4	4,276 74	3	2,457 55	. . .	. . . . .
Cherry Tree township, .	636,845 00	. . .	. . . .	5	3,882 22	4	2,547 38	. . .	. . . . .
Clinton township, ...	935,416 00	. . .	. . . .	2½	2,338 54	3	2,806 24	. . .	. . . . .
Canal township, ...	349,804 00	. . .	. . . .	2½	937 35	3	1,268 33	. . .	. . . . .
Cooperstown borough, .	85,000 00	7	777 00	5	452 29	. . .	. . . .	. . .	. . . . .
Franklin, ...	1,770,252 00	. . .	*	7	14,551 76	. . .	. . . .	. . .	. . . . .
French Creek township,	477,163 00	. . .	. . . .	3	1,871 50	4	1,908 65	. . .	. . . . .
Irwin township, ...	562,787 00	. . .	. . . .	2	1,600 57	5	2,813 93	. .	. . . . .
Jackson township, ...	387,493 00	. . .	. . . .	3½	1,626 22	3	1,162 48	. . .	. . . . .
Mineral township, ...	392,808 00	. . .	. . . .	1½	849 21	3	1,178 42	. . .	. . . . .
Oakland township, . . .	641,170 00	. . .	. . . .	4	2,700 00	4	2,564 68	. . .	. . . . .
Oil Creek township, . . .	378,137 00	. . .	. . . .	6	2,828 82	3	1,134 41	. . .	. . . . .
Oil City, ...	1,800,000 00	15	25,000 00	11	19,800 00	. .	. . . .	. . .	. . . . .
Pinegrove township, . .	350,536 00	. . .	. . . .	5	2,129 68	4	1,402 14	. . .	. . . . .
President township, . . .	209,200 00	. . .	. . . .	5	1,046 10	10	2,092 00	. . .	. . . . .
Plum township, ...	519,330 00	. . .	. . . .	3	1,557 99	6	3,115 98	. . .	. . . . .
Pleasantville borough, .	308,587 00	3	942 31	18	5,652 74	. . .	. . . .	. . .	. . . . .
Pithole borough, ...	6,490 00	. . .	*	10	164 90	. . .	. . . .	. . .	. . . . .
Rockland township, . . .	570,000 00	. . .	. . . .	3	2,295 00	5½	3,135 05	. . .	. . . . .
Richland township, . . .	429,333 00	. . .	. . . .	2½	1,312 39	4	1,746 28	. . .	. . . . .
Sandy Creek township, .	407,288 00	. . .	. . . .	3	1,106 97	5	2,036 44	. . .	. . . . .
Sugar Creek township, .	775,143 00	. . .	. . . .	4½	4,118 14	3	2,325 43	. . .	. . . . .
Scrubgrass township, . .	414,617 00	. . .	. . . .	3	1,513 00	5½	2,191 00	. . .	. . . . .
Silverlyville borough, . .	172,841 00	4½	837 11	8	1,262 72	. . .	. . . . . .	. . .	. . . . .
Utica township, ...	52,775 90	. . .	. . . .	10	642 75	10	527 75	. . .	. . . . .
Victory township, ...	155,982 00	. . .	. . . .	3	520 00	5	779 00	. .	. . . . .
Emlenton borough, . . .	300,000 00	5	1,500 00	9	2,700 00	. . .	. . . .	. . .	. . . . .
Total, ...	15,185,549 00	. . .	$29,056 42	. . .	$98,581 35	. . .	$42,867 88	. .	. . . . .

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of four mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$98 15	$2,757 76	......	......	$5,000 00	......	......	.....	500
......	53 60	1,487 91	......	......	3,600 00	......	......	.....	300
......	70 78	1,321 89	......	3	2,500 00	.....	......	.....	284
......	39 40	835 75	......	......	3,000 00	......	......	.....	259
......	44 49	1,088 74	......	......	4,200 00	......	......	.....	329
......	15 66	250 14	......	......	1,500 00	......	......	.....	93
......	121 90	1,781 49	......	......	3,000 00	......	......	.....	239
......	44 40	1,342 08	......	......	3,800 00	......	......	.....	224
......	43 00	1,020 54	......	......	3,000 00	......	......	.....	217
......	171 75	2,487 38	......	......	10,000 00	......	......	.....	766
......	44 67	1,044 66	7,000 00	......	13,000 00	......	......	.....	370
......	41 70	350 75	......	......	2,000 00	......	......	.....	176
......	18 65	761 12	......	......	5,000 00	......	......	.....	184
......	59 03	1,433 99	......	......	8,000 00	......	......	.....	500
......	$867 18	$17,964 20	$7,000 00	......	$67,600 00	......	......	.....	4,441

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of seven mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	......	$2,412 94	......	1	$3,600 00	......	......	.....	515
......	$77 30	6,120 56	......	......	16,000 00	......	......	.....	1,865
......	45 35	5,734 30	......	......	10,000 00	.....	......	.....	1,000
......	24 55	4,457 91	......	......	7,000 00	......	......	.....	698
......	21 35	6,547 92	......	......	5,400 00	......	......	.....	640
......	1 50	2,789 56	......	......	3,000 00	......	......	.....	338
......	76 75	543 85	......	......	800 00	500 00	......	.....	112
......	1,395 70	12,391 76	......	......	35,000 00	......	......	.....	2,160
......	3 30	3,340 14	......	......	5,000 00	......	......	.....	440
......	7 30	3,939 51	......	......	6,000 00	......	......	.....	475
......	16 20	2,715 60	......	......	5,000 00	......	......	.....	270
......	7 75	2,749 65	......	......	3,000 00	......	......	.....	260
......	33 20	4,459 81	......	1	3,500 00	......	......	.....	460
......	9 50	2,646 96	......	......	5,400 00	......	......	.....	560
......	755 20	13,647 38	$11,000 00	......	14,000 00	100,000 00	$33,574 00	.....	1,595
......	......	......	......	......	......	......	......	.....	980
......	12 70	2,453 76	......	......	4,000 00	......	......	.....	377
......	2 00	1,278 82	......	......	4,000 00	......	......	.....	311
......	36 40	3,203 76	......	......	10,000 00	......	......	.....	425
......	48 55	2,068 77	18,500 00	......	25,000 00	......	500 00	.....	390
......	......	45 43	......	......	1,000 00	......	......	.....	100
......	34 80	4,108 67	......	......	......	......	......	.....	712
......	8 40	3,003 29	......	......	3,500 00	......	......	.....	370
......	3 80	2,240 26	......	......	3,000 00	......	......	.....	250
......	9 60	5,426 00	......	......	6,000 00	......	......	.....	630
......	14 75	2,893 72	.....	3	5,300 00	107 00	......	.....	345
......	8 50	1,320 35	......	......	3,800 00	250 00	350 00	.....	145
......	12 20	369 42	......	......	1,000 00	.....	......	.....	115
......	......	1,030 50	......	......	1,200 00	......	......	.....	175
......	27 25	2,022 26	8,000 00	......	15,000 00	1,000 00	......	.....	400
......	$2,694 10	$108,416 62	$37,500 00	......	$205,500 00	$101,857 00	$34,424 00	.....	17,103

WARREN

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Warren borough, ...	$1,598,900 00	5	$7,303 56	6	$8,945 44	. . .	. . . . . .	. . .	. . . . .
Youngsville borough, . .	131,755 00	. . .	*	10	1,478 55	. . .	. . . . . .	. .	. . . . .
Columbus borough, . . .	142,000 00	3	424 13	4	737 00	. . .	. . . . . .	. . .	. . . . .
Tidioute borough, ...	469,000 00	5¾	2,869 95	9	4,654 00	. . .	. . . . . .	. . .	. . . . .
Brokenstraw township,	378,980 00	. . .	. . . . . .	6	2,600 88	4	1,515 92	. . .	. . . . .
Conewango township, .	475,480 00	. . .	. . . . . .	3	1,864 44	3	1,426 44	. . .	. . . . .
Columbus township, . .	527,950 00	. . .	. . . . . .	3	1,594 86	3 8-10	2,000 00	. . .	. . . . .
Corydon township, . . .	110,930 00	. . .	. . . . . .	2½	360 57	5	540 65	. . .	. . . . .
Cherry Grove township,	90,000 00	. . .	. . . . . .	2	180 00	8	720 00	. . .	. . . . .
Deerfield township, . .	563,480 00	. .	. . . . . .	5	3,054 00	8	4,507 84	. . .	. . . . .
Elk township, ...	280,890 00	. .	. . . . . .	2	711 78	5	1,404 45	. . .	. . . . .
Eldred township, ...	281,593 00	. . .	. . . . . .	4	937 38	4	614 00	. . .	. . . . .
Freehold township,	574,135 00	. . .	. . . . . .	2½	1,500 00	3	1,647 64	. . .	. . . . .
Farmington township, .	503,450 00	. . .	. . . . . .	2	1,394 28	3½	1,762 00	. . .	. . . . .
Glade township, ...	487,518 00	. . .	. . . . . .	3	3,364 35	2½	297 67	. . .	. . . . .
Kinzua township, ...	157,230 00	. . .	. . . . . .	3	569 63	10	1,513 15	. . .	. . . . .
Limestone township, . .	311,780 00	. . .	. . . . . .	2	782 47	5	1,567 00	. . .	. . . . .
Mead township, ...	182,232 00	. . .	. . . . . .	3	708 70	5	911 16	. . .	. . . . .
Pine Grove township, .	402,200 00	. . .	. . . . . .	2½	1,461 50	4	1,608 80	. . .	. . . . .
Pleasant township, . . .	135,873 00	. . .	. . . . . .	4	543 49	4	543 49	. . .	. . . . .
Pittsfield township, . . .	560,000 00	. . .	. . . .	3	1,116 20	4	2,240 00	. . .	. . . . .
Sugar Grove township, .	684,961 00	. . .	. . . . . .	3½	3,100 00	3	2,062 00	. . .	. . . . .
Spring Creek township,	410,365 00	. .	. . . . .	3	1,600 00	3	1,231 00	. . .	. . . . .
Sheffield township, . . .	182,555 00	. .	. . . . . .	12	2,190 66	10	1,825 55	. . .	. . . . .
South West township, .	357,675 00	. . .	. . . . . .	4	1,640 70	4	1,438 70	. . .	. . . . .
Total, ...	10,002,932 00	. . .	$10,597 64	. . .	$47,090 88	. . .	$31,451 46	. . .	. . . . .

* No report.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of three mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$203 63	$4,016 78	$10,000 00	......	$52,000 00	$14,200 00	$15,500 00	.....	835
......	21 00	395 26	......	......	3,000 00	......	......	.....	161
......	30 92	401 43	......	......	1,500 00	......	......	.....	149
......	173 05	1,492 98	490 00	......	5,000 00	3,111 00	3,500 00	.....	405
......	79 49	1,139 94	......	......	6,000 00	......	......	.....	327
......	100 97	1,426 44	......	......	11,000 00	......	......	.....	438
......	105 17	1,601 24	......	......	4,000 00	......	......	.....	375
......	23 59	325 42	......	......	1,500 00	......	......	.....	89
......	6 00	266 82	......	2	500 00	......	......	.....	25
......	100 24	1,670 19	......	......	10,500 00	......	......	.....	575
......	33 92	842 61	......	......	5,400 00	......	......	.....	130
......	41 84	813 43	......	1	4,000 00	.....	......	.....	212
......	155 92	1,702 29	......	½	7,500 00	......	......	.....	420
......	136 32	1,510 35	......	......	10,000 00	......	......	.....	315
......	146 68	1,511 11	3,000 00	3	12,000 00	......	......	.....	347
......	21 27	471 60	......	......	2,000 00	900 00	......	.....	97
......	54 27	1,209 91	......	......	3,500 00	......	......	.....	192
......	36 52	546 69	......	......	2,700 00	......	......	.....	162
......	85 49	1,206 60	......	......	9,000 00	......	......	.....	456
......	20 98	471 07	151 00	......	2,200 00	......	......	.....	80
......	75 97	1,511 83	......	2	4,000 00	......	......	.....	346
......	203 08	2,054 72	......	1	10,000 00	......	......	.....	558
......	112 05	1,185 18	......	1	2,500 00	......	......	.....	360
......	33 36	675 83	4,339 55	5	6,500 00	500 00	......	.....	373
......	54 54	1,079 03	......	......	6,300 00	......	......	.....	202
......	$2,056 47	$29,525 75	17,980 55	......	$182,600 00	$18,711 00	$19,000 00	.....	7,629

WASHINGTON

	Whole amount of taxable property.	Rate of city or borough tax.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax.	Whole amount of poor tax.
Allen,	$405,699 00	...	......	2	$1,232 24	1½	$639 72	...	.....
Amwell,	1,859,783 00	...	......	4	7,439 13	2	3,719 56	...	.....
Beallsville,	178,861 00	1½	268 29	1	178 86	...	......	...	.....
Bentleysville,	158,394 00	...	*	5	892 97	...	......	...	.....
Buffalo,	418,073 00	...	......	4½	2,504 65	3½	1,463 26	...	.....
California,	206,670 00	5	1,033 35	5	1,253 50	...	......	...	.....
Canonsburg,	230,329 00	4	1,176 50	8½	1,724 83	...	......	...	.....
Canton,	705,589 00	...	......	4	2,989 36	2	1,411 17	...	.....
Carroll,	1,139,909 00	...	......	5½	6,782 50	2	2,279 81	...	.....
Cecil,	1,214,068 00	...	......	4	5,217 27	2	2,428 13	...	.....
Chartiers,	1,532,096 00	...	......	4	6,716 38	2	3,064 19	...	.....
Claysville,	125,570 00	...	*	5	728 85	...	......	...	.....
Cross Creek,	1,187,833 00	...	......	1 8-10	2,384 83	1 8-10	2,159 34	...	.....
Donegal,	417,670 00	...	......	4	1,954 68	4	1,913 00	...	.....
East Bethlehem,	1,025,271 00	...	......	1	1,025 27	2	2,044 62	...	.....
East Finley,	943,363 00	...	......	1½	1,721 00	1½	1,770 00	...	.....
East Pike Run,	586,750 00	...	......	1½	1,075 00	3	2,000 00	...	.....
Fallowfield,	826,526 00	...	......	4	3,561 10	2	1,653 05	...	.....
Franklin,	1,302,912 00	...	......	1	1,430 94	1	1,500 00	...	.....
Greenfield,	110,000 00	3	360 00	8	1,000 00	...	......	...	.....
Hanover,	1,486,094 00	...	......	1¾	2,879 14	1½	2,276 78	...	.....
Hopewell,	777,841 00	...	......	1¾	1,549 95	2	1,555 00	...	.....
Independence,	996,737 00	...	......	1¼	1,395 00	...	......	...	.....
Jefferson,	988,358 00	...	......	1	1,219 65	1¼	1,245 45	...	.....
Millsboro',	85,353 00	...	*	11	1,029 88	...	......	...	.....
Monongahela City,	1,336,479 00	...	*	8	11,541 83	...	......	...	.....
Morris,	826,495 00	...	......	3	2,761 49	2	1,652 99	...	.....
Mt. Pleasant,	231,000 00	...	......	1	2,031 00	1¼	2,538 35	...	.....
Nottingham,	111,039 00	...	......	1¾	1,488 44	2¼	1,825 49	...	.....
North Strabane,	1,177,321 00	...	......	3½	4,442 62	2	2,354 64	...	.....
Peters,	908,769 00	...	......	1¾	1,757 00	1½	1,632 00	...	.....
Robinson,	1,225,000 00	...	......	1 1-7	1,400 00	1	1,225 00	...	.....
Smith,	2,016,000 00	...	......	1¾	3,528 00	2	3,564 00	...	.....
Somerset,	1,192,085 00	...	......	4	5,022 34	2	2,384 17	...	.....
South Strabane,	1,044,000 00	...	......	1¼	1,748 85	1¼	1,354 57	...	.....
Union,	908,908 00	...	......	5	4,929 54	2	1,817 81	...	.....
West Bethlehem,	1,705,913 00	...	......	1½	3,052 78	3	5,117 00	...	.....
West Brownsville,	170,000 00	1½	297 00	5	830 00	...	......	...	.....
West Finley,	909,038 00	...	......	5	4,942 19	2	1,818 07	...	.....
West Middletown,	73,849 00	...	......	6½	546 00	1	73 00	...	.....
West Pike Run,	677,000 00	...	......	1½	1,200 00	1½	1,000 00	...	.....
West Alexander,	146,643 00	2	293 28	2½	366 60	...	......	...	.....
Washington,	1,823,318 00	10	18,233 18	4¼	8,114 30	...	......	...	.....
Total,	35,392,606 00	...	$21,661 60	...	$119,549 96	...	$61,480 17	...	.....

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of three mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$28 20	$1,521 90	......	......	$4,000 00	......	......	.....	311
......	181 13	5,579 35	......	......	12,000 00	......	......	.....	512
......	14 35	524 09	......	......	800 00	......	......	.....	122
......	11 01	475 18	......	......	1,500 00	......	......	.....	101
......	49 43	3,837 75	......	......	6,400 00	......	......	.....	337
......	17 90	527 38	$435 96	......	1,600 00	......	......	.....	316
......	105 80	816 04	......	......	1,000 00	$2,911 24	$1,620 00	.....	209
......	36 70	2,115 76	......	......	3,500 00	......	......	.....	167
......	10 55	3,419 72	......	......	9,000 00	......	......	.....	573
......	181 30	3,642 20	......	......	6,000 00	......	......	.....	361
......	126 25	4,596 28	......	......	7,000 00	......	......	.....	588
......	60 85	376 71	......	......	1,800 00	......	......	.....	101
......	35 91	3,755 69	......	......	8,000 00	......	......	.....	383
......	47 17	3,771 07	......	......	8,000 00	......	......	.....	350
......	25 53	3,039 21	......	......	8,000 00	......	......	.....	442
......	10 88	3,034 78	......	......	3,200 00	......	......	.....	325
......	44 72	1,841 98	......	½	7,000 00	......	......	.....	340
......	38 27	2,479 57	......	......	7,200 00	......	......	.....	255
......	52 50	3,330 77	......	......	7,000 00	......	......	.....	317
......	19 15	255 60	1,200 00	......	4,000 00	......	200 00	$150 00	161
......	85 32	4,649 05	......	......	2,500 00	......	......	.....	543
......	43 30	2,329 68	......	......	9,000 00	......	......	.....	238
......	31 15	3,010 60	400 00	......	6,000 00	......	......	.....	258
......	35 60	3,150 44	......	......	6,000 00	......	......	.....	296
......	16 14	256 06	......	......	1,500 00	......	......	.....	91
......	148 80	4,009 42	......	......	10,000 00	......	......	.....	850
......	28 70	2,479 48	......	......	5,500 00	......	......	.....	282
......	140 61	4,895 14	......	......	10,000 00	......	......	.....	376
......	42 15	2,598 08	......	......	5,000 00	......	......	.....	254
......	44 20	3,531 96	......	......	6,300 00	......	......	.....	322
......	34 23	2,633 74	......	......	5,000 00	......	......	.....	252
.....	18 17	3,738 67	......	......	6,000 00	......	......	.....	460
......	141 40	5,275 18	.....	......	10,000 00	......	......	.....	615
.....	146 00	3,576 25	......	......	7,200 00	......	......	.....	254
......	30 25	3,174 34	......	......	3,000 00	90 00	......	.....	396
......	14 40	2,726 72	......	......	7,000 00	......	......	.....	385
......	75 20	4,980 92	......	¼	7,500 00	......	......	.....	584
......	101 19	638 79	1,100 00	......	7,500 00	200 00	......	.....	178
......	6 85	2,727 11	......	......	10,000 00	......	......	.....	397
......	37 89	233 92	......	......	2,000 00	......	......	.....	109
......	99 56	2,382 89	......	......	5,000 00	......	......	....	268
......	35 78	401 61	......	......	1,600 00	......	......	.....	121
......	115 70	4,428 64	3,365 16	......	31,500 00	59,600 00	36,000 00	.....	1,168
......	$2,661 95	$117,898 77	$6,501 12	......	$272,100 00	$62,801 24	$37,820 00	$150 00	14,980

WAYNE

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Berlin,	$269,707	. . .	. . . . . .	13	$3,875 19	3	$809 12	. . .	. . . . .
Bethany,	47,938	. . .	. . . . . .	1	112 82	1¼	59 00	. . .	. . . . .
Buckingham,	243,505	. . .	. . . . . .	6½	1,582 78	3	732 22	5	$1,219 52
Canaan,	117,000	. . .	. . . . . .	. . .	421 00	. . .	324 00	. . .	486 00
Clinton,	58,587	. . .	. . . . . .	15	780 00	10	595 87	10	598 05
Cherry Ridge,	219,706	. . .	. . . . . .	2	673 00	3	659 00	2	436 57
Damascus,	150,660	. . .	. . . . . .	10	2,816 49	8	1,205 27	8	1,205 00
Dyberry,	259,886	. . .	. . . . . .	13	3,658 52	3	779 66	. . .	. . . . .
Honesdale,	928,880	6¼	$5,805 50	5½	5,030 00	4½	4,118 93	. . .	. . . . .
Lebanon,	256,251	. . .	. . . . . .	12	3,249 01	3	768 75	. . .	. . . . .
Lake,	281,167	. . .	*	. . .	. . . . . .	. . .	. . . . . .	. . .	. . . . .
Manchester,	245,000	. . .	. . . . . .	4	1,305 00	2½	605 00	4	966 87
Mt. Pleasant,	493,000	. . .	. . . . . .	3¼	1,593 22	1½	739 50	1	493 00
Oregon,	160,000	. . .	. . . . . .	3	632 12	2	320 00	. . .	. . . . .
Palmyra,	320,836	. . .	. . . . . .	5	2,177 28	10	1,693 00	. . .	. . . . .
Paupack,	102,000	. . .	. . . . . .	4	603 00	5	519 42	4	416 00
Preston,	345,129	. . .	. . . . . .	13	4,923 68	4	1,380 51	. . .	. . . . .
Prompton,	80,359	3	241 00	5	401 00	. . .	. . . . . .	. . .	. . . . .
Salem,	78,288	. . .	. . . . . .	15	1,554 32	15	11,174 32	10	782 88
Scott,	237,395	. . .	. . . . . .	13	3,389 13	4	949 58	. . .	. . . . .
South Canaan,	258,503	. . .	. . . . . .	13	3,684 54	4	1,034 01	. . .	. . . . .
Sterling,	425,000	. . .	. . . . . .	2½	1,426 00	11	. . . . . .	1½	635 00
Starrucca,	117,400	. . .	. . . . . .	13	1,681 20	6	704 40	. . .	. . . . .
Texas,	484,930	. . .	. . . . . .	6	2,978 38	6	2,908 58	4½	2,182 00
Waymart,	98,500	10	180 69	7	777 00	. . .	. . . . . .	3	295 28
Total,	$6,279,627	. . .	$6,227 19	. . .	$49,329 68	. . .	$22,080 14	. . .	$9,716 17

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of three mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$23 36	$746 32	......	......	$3,600	......	......	......	369
......	10 29	142 66	......	......	500	......	......	......	64
......	33 44	836 88	......	1½	2,375	......	......	......	363
......	13 10	404 85	......	7	1,800	$275 00	......	......	195
......	13 91	829 13	......	......	2,500	......	......	......	303
......	17 10	725 47	......	2	3,000	......	......	......	267
......	47 43	2,130 23	......	5	7,700	......	......	......	768
......	17 78	779 66	......	......	2,800	......	......	......	280
......	307 61	2,784 41	1,000 00	......	20,000	......	......	......	698
......	9 33	768 75	......	......	1,600	......	......	......	174
......	37 63	797 06	......	......	......	......	......	......	358
......	47 18	768 02	22 00	......	2,400	......	......	$160 00	404
......	31 49	1,548 60	......	......	7,500	......	......	......	498
......	7 20	485 61	......	......	2,000	275 00	......	......	179
......	139 48	1,051 11	......	......	1.400	494 00	......	......	746
......	14 45	381 49	154 00	2	2,600	170 00	......	......	230
......	26 63	1,035 39	......	......	5,200	......	......	......	442
......	14 00	245 62	......	......	1,500	......	......	......	119
......	29 09	1,146 89	......	......	4,000	......	......	......	446
......	20 88	712 19	......	......	4,400	......	......	......	303
......	17 87	775 51	......	......	3,600	......	......	......	324
......	44 69	1,312 49	......	......	5,000	......	......	......	470
......	18 96	352 20	......	......	1,500	......	......	......	155
......	139 96	1,469 34	200 00	......	10,000	1,270 00	......	......	1,075
......	20 24	295 85	491 60	1½	2,000	......	......	143 36	164
......	$1,103 10	$22,525 73	$1,867 60	......	$98,975	$2,484 00	......	$303 36	9,394

WESTMORELAND

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Allegheny township,	$671,893	...	...	3½	$2,876 62	5	$3,359 46	...	...
Bell township,	360,000	...	...	3	1,089 84	2½	908 00	...	...
Burrell township,	750,000	...	...	2	1,500 00	6½	4,875 00	...	...
Cook township,	270,000	...	...	4	1,278 00	4½	1,215 00	...	...
Donegal township,	258,600	...	...	4	1,104 00	3½	966 00	...	...
Derry township,	200,000	...	...	3½	7,000 00	4	8,000 00	...	...
Fairfield township,	330,862	...	...	7	2,657 92	7	2,200 00	...	...
Franklin township,	601,876	...	...	3½	2,571 57	7	4,213 13	...	...
Hempfield township,	2,912,171	...	...	2	7,351 34	3	8,736 51	...	...
Huntingdon, East, twp.,	1,485,028	...	...	2	3,681 06	4	5,940 11	...	...
Huntingdon, South, twp.	840,153	...	...	1¾	2,189 00	3	2,923 80	...	...
Huntingdon, North, twp.	1,411,298	...	...	4	8,927 27	4	2,386 00	...	...
Ligonier township,	791,786	...	...	3	3,087 36	6	4,750 72	...	...
Loyalhanna township,	325,738	...	...	3½	1,364 08	7	2,280 17	...	...
Mt. Pleasant township,	1,203,912	...	...	3	4,585 97	3	3,611 74	...	...
Penn township,	1,070,106	...	...	3	3,819 32	4	4,280 42	...	...
Rostraver township,	1,273,883	...	...	2	2,284 32	2	2,488 00	...	...
Sewickley township,	985,306	...	...	2½	3,263 26	5	4,926 53	...	...
Salem township,	865,618	...	...	2½	3,262 87	2½	3,018 16	...	...
St. Clair township,	120,000	...	...	14	1,680 00	6½	780 00	...	...
Unity township,	1,516,025	...	...	2½	5,930 60	3	5,160 00	...	...
Washington township,	626.637	...	...	2	1,639 27	6	3,759 82	...	...
Adamsburg borough,	47,426	1	$47 42	6	2,845 56	...	...	...	...
Bolivar borough,	46,665	5	300 00	10	554 00	...	...	...	...
Donegal borough,	37,000	3	111 00	6	241 92	...	...	...	...
Greensburg borough,	972,362	...	*	3	3,584 09	...	...	...	...
Irwin borough,	380,065	4½	1,710 29	8	3,040 00	...	...	...	...
Ligonier borough,	110,000	4½	520 00	4½	610 00	...	...	...	...
Livermore borough,	44,846	4	178 38	2	193 53	...	...	...	...
Latrobe borough,	489,680	5	2,448 40	3	1,469 00	...	...	...	...
Ludwick borough,	205,470	...	*	2½	698 68	...	...	...	...
Mt. Pleasant borough,	421,200	2⅓	1,026 00	5	2,106 00	...	...	...	...
Madison borough,	59,945	...	*	...	...	...	...	...	...
New Alexandria borough	82,277	...	*	3	356 83	...	...	...	...
New Florence borough,	79,502	3	238 60	8	636 00	...	...	...	...
North Bellvernon bor.,	48,932	...	*	...	...	...	...	...	...
Penn borough,	105,330	4	505 00	2	395 00	...	...	...	...
Parnassus borough,	151,913	2	303 83	3½	633 84	...	...	...	...
Salem borough,	91,935	..	*	3	413 80	...	...	...	...
Scott Dale borough,	295,958	5	1,594 00	5	1,692 00	...	...	...	...
West Newton borough,	231,231	7	1,618 00	6	1,387 00	...	...	...	...
Youngstown borough,	47,082	...	*	3½	244 79	...	...	...	...
Total,	$22,819,711	...	$10,600 32	...	$94,245 71	..	$80,778 57	...	...

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of four and a half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
. . . . . .	$24 94	$3,023 52	. . . . . .	. . . . . .	$8,500 00	. . . . . .	. . . . . .	. . . . .	525
. . . . . .	9 88	1,859 24	. . . . . .	. . . . . .	4,800 00	. . . . . .	. . . . . .	. . . . .	263
. . . . . .	7 85	2,874 27	. . . . . .	. . . .	8,800 00	. . . . . .	. . . . . .	. . . . .	435
. . . . . .	19 74	1,264 30	. . . . . .	. . . . . .	5,000 00	. . . . . .	. . . . . .	. . . . .	337
. . . . . .	13 20	1,255 55	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	348
. . . . . .	110 18	7,756 31	. . . . . .	. . . . . .	15,600 00	. . . . .	. . . . . .	. . . . .	1,517
. . . . . .	21 86	1,474 19	. . . . . .	2½	8,000 00	. . . . . .	. . . . . .	. . . . .	480
. . . . . .	31 25	2,708 44	. . . . . .	. . . . . .	10,000 00	. . . . . .	. . . . . .	. . . . .	465
. . . . . .	225 28	13,104 77	. . . . . .	. . . . . .	25,000 00	. . . . . .	. . . . . .	. . . . .	1,527
. . . . . .	171 85	6,682 63	. . . . . .	. . . . . .	8,500 00	. . . . . .	. . . . . .	. . . . .	711
. . . . . .	84 54	3,780 69	. . . . . .	. . . . . .	19,000 00	. . . . . .	. . . . . .	. . . . .	630
. . . . . .	122 40	7,120 85	. . . . . .	. . . . . .	2,800 00	. . . . . .	. . . . . .	. . . . .	1,449
. . . . . .	30 40	3,563 04	. . . . . .	. . . . . .	15,000 00	. . . . . .	. . . . . .	. . . . .	712
. . . . . .	13 75	1,465 82	. . . . . .	. . . . . .	3,400 00	. . . . . .	. . . . . .	. . . . .	224
. . . . .	94 58	6,930 31	$806 00	. . . . . .	22,500 00	. . . . . .	. . . . . .	. . . . .	890
. . . . .	48 89	4,815 48	. . . . . .	. . . . . .	15,000 00	. . . . . .	. . . . . .	. . . . .	609
. . . . .	100 99	6,210 72	. . . . . .	. . . . . .	9,600 00	. . . . . .	. . . . . .	. . . . .	720
. . . . . .	92 45	4,433 88	. . . . . .	. . . . . .	4,200 00	. . . . .	. . . . . .	. . . . .	800
. . . . . .	27 43	3,895 28	. . . . . .	. . . . . .	7,700 00	. . . . . .	. . . . . .	. . . . .	549
. . . . . .	4 35	440 54	. . . . . .	7	3,500 00	. . . . . .	. . . . . .	. . . . .	203
. . . . . .	112 94	6,822 11	500 00	. . . . . .	20,000 00	. . . . . .	. . . . . .	. . . . .	1,104
. . . . . .	17 13	2,819 87	. . . . . .	. . . . . .	8,500 00	. . . . . .	. . . . . .	. . . . .	386
. . . . . .	6 60	205 97	265 00	. . . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	67
. . . . . .	2 50	237 58	600 00	. . . . .	1,000 00	$40 00	. . . . . .	. . . . .	96
. . . . . .	14 53	126 15	100 00	. . . . . .	800 00	. . . . . .	. . . . . .	. . . . .	73
. . . . . .	128 70	4,375 63	. . . . . .	. . . . . .	20,500 00	. . . . . .	. . . . . .	. . . . .	667
. . . . . .	138 50	1,710 29	11,562 00	. . . . . .	12,000 00	7,832 00	. . . . . .	. . . . .	375
. . . . .	26 50	538 36	. . . . . .	. . . . . .	1,800 00	. . . . . .	. . . . . .	. . . . .	165
. . . . . .	7 55	192 04	. . . . . .	. . . . . .	500 00	. . . . . .	. . . . . .	. . . . .	81
. . . . . .	83 26	2,468 18	. . . . . .	. . . . . .	3,500 00	3,233 00	. . . . . .	. . . . .	495
. . . . . .	17 73	924 62	. . . . . .	. . . . . .	3,000 00	. . . . . .	. . . . . .	. . . . .	185
. . . . . .	79 80	1,905 58	985 75	. . . . . .	10,000 00	1,900 00	. . . . . .	. . . . .	299
. . . .	25 13	269 75	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . .	52
. . . . . .	45 64	370 24	. . . . . .	. . . . . .	1,000 00	. . . . . .	. . . . . .	. . . . .	110
. . . . . .	16 60	298 21	. . . . . .	. . . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	135
. . . . . .	21 30	220 19	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . . .	. . . . .	83
. . . . .	5 25	581 24	300 00	. . . . . .	1,500 00	. . . . . .	. . . . . .	. . . . .	232
. . . . .	28 86	689 27	. . . . . .	. . . . . .	1,150 00	. . . . . .	. . . . . .	. . . . .	161
. . . . . .	15 65	413 71	. . . . . .	. . . . . .	2,500 00	. . . . . .	. . . . . .	. . . . .	138
. . . . . .	47 95	1,353 82	. . . . . .	2½	1,500 00	1,400 00	$850 00	. . . . .	324
. . . . . .	30 27	1,197 19	. . . . . .	. . . . . .	5,000 00	1,058 00	980 00	. . . . .	360
. . . . . .	10 40	211 86	. . . . .	. . . . . .	1,000 00	. . . . . .	. . . . . .	. . . . .	80
. . . . . .	$2,138 60	$112,531 69	$15,118 75	. . . . . .	$307,150 00	$15,463 00	$1,830 00	. . . . .	19,062

WYOMING

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax—mills.	Whole amount of poor tax.
Braintrim township, . .	$142,000	. . .	. . . .	5	$589 71	4	$564 78	. . .	. . . . .
Clinton township, ...	271,028	. . .	. . . .	2½	910 57	5	1,355 14	. . .	. . . . .
Eaton township, ...	800,000	. . .	. . . .	2½	1,000 00	5	1,800 00	. . .	. . . . .
Exeter township, ...	57,047	. . .	. . . .	1	157 00	1	56 95	1	56 95
Falls township, ...	243,040	. . .	. . . .	2½	607 61	5	1,215 23	2½	607 61
Forkston township, . . .	127,934	. . .	. . . .	3	554 80	5	639 67	. . .	. . . . .
Lemon township, ...	183,200	. . .	. . . .	1½	356 73	3⅓	609 87	1½	288 43
Mehoopany, ...	229,052	. .	. . . .	3	912 66	5	1,145 26	½	226 00
Meshoppen township, . .	272,628	. . .	. . . .	2½	681 57	5	1,363 14	4	1,090 57
Monroe township, ...	166,874	. . .	. . . .	3	712 62	5	834 35	. . .	. . . . .
Nicholson township, . .	251,622	. . .	. . . .	6	1,777 73	4	1,006 48	. . .	. . . . .
Nicholson borough, . . .	146,344	. . .	*	. . .	. . . .	. .	. . . .	. . .	. . . . .
Northmoreland twp., . .	300,933	. . .	. . . .	2	1,363 20	4	1,116 78	2⅓	694 80
North Branch township,	78,423	. . .	. . . .	3½	662 00	5	400 00	. . .	. . . . .
Overfield township, . . .	117,705	. . .	. . . .	½	172 63	5	588 52	. . .	. . . . .
Tunkhannock township,	319,888	. . .	. . . .	4	1,279 55	3	959 66	. . .	. . . . .
Tunkhannock borough, .	251,782	3	$755 00	5	1,762 51	2½	630 00	. . .	. . . . .
Washington township, .	216,792	. . .	. . . .	2½	542 00	3	650 00	2	433 00
Windham township, . .	225,000	. . .	. . . .	4	973 36	2	391 69	. . .	. . . .
Total, ...	$4,401,292	. . .	$755 00	. . .	$15,016 25	. . .	$15,327 52	. . .	$3,397 30

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax at the rate of five mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$39 68	$709 82	......	......	$3,000	......	......	......	184
......	47 47	1,355 14	......	......	2,500	......	......	......	233
......	50 38	1,517 12	......	......	3,500	......	......	......	229
......	10 49	287 50	......	......	500	......	......	......	50
......	64 94	1,236 24	......	......	4,000	......	......	......	299
......	27 91	639 67	......	......	2,000	......	......	......	171
......	27 80	812 26	......	......	2,400	$200 00	......	......	147
......	68 51	1,151 02	......	......	4,000	......	......	......	232
......	41 01	1,364 54	......	......	3,500	......	......	......	345
......	29 59	834 37	......	......	3,500	......	......	......	212
......	47 85	1,258 11	......	......	4,000	......	......	......	268
......	39 86	731 72	......	......	......	......	......	......	137
......	42 61	1,333 54	......	......	1,200	1,000 00	......	......	229
......	18 43	400 36	$300 00	......	1,000	200 00	......	......	98
......	20 55	584 74	......	......	1,800	......	......	......	104
......	67 17	1,599 44	......	......	4,000	......	......	......	300
......	47 21	1,258 91	279 00	......	4,000	1,450 00	......	......	264
......	28 26	1,078 59	......	......	4,000	350 00	......	......	190
......	48 37	977 69	......	......	4,000	......	......	......	207
......	$768 09	$19,130 78	$579 00	......	$52,900	$3,200 00	......	......	3,899

YORK

	Whole amount of taxable property.	Rate of city or borough tax—mills.	Whole amount of city or borough tax.	Rate of school tax—mills.	Whole amount of school tax.	Rate of township or road tax—mills.	Whole amount of township or road tax.	Rate of poor tax.	Whole amount of poor tax.
Carroll township, ...	$562,900 00	. . .	. . . .	1	$763 12	3	$1,800 00	. . .	. . . .
Chanceford township, . .	618,007 00	. . .	. . . .	1½	1,276 53	3	1,800 00	. . .	. . . .
Codorus township,. . . .	1,000,000 00	. . .	. . . . . .	2	2,690 74	2	2,200 00	. . .	. . . .
Conewago township,. . .	597,883 00	. . .	. . . .	2	1,620 83	2	1,348 65	. . .	. . . .
Dover township, ...	1,482,914 00	. .	. . . . .	1½	2,494 98	2	2,864 91	. . .	. . . .
Fairview township, . . .	1,318,532 00	. . .	. . . .	2	3,107 27	2	2,720 80	. . .	. . . .
Fawn township, ...	450,600 00	. . .	. . . .	2	1,216 97	3½	1,507 67	. . .	. . . .
Franklin township, . . .	458,926 00	. . .	. . . .	1	674 93	4	1,835 70	. . .	. . . .
Heidelberg township, . .	1,828,374 00	. . .	. . . .	¾	1,983 28	2	3,656 74	. . .	. . . .
Hellam township, ...	1,611,058 00	. . .	. . . .	¾	1,600 00	¾	1,050 00	. . .	. . . .
Hopewell township, . . .	1,312,968 00	. . .	. . . .	2½	4,059 55	2½	2,981 00	. . .	. . . .
Jackson township, ...	1,432,157 00	. . .	. . . .	.70	1,197 68	.85	1,020 00	. . .	. . . .
Lower Chanceford twp.,	630,570 00	. . .	. . . .	2	1,786 14	3	1,891 71	. . .	. . . .
Lower Windsor twp., . .	1,532,554 00	. . .	. . . .	3	3,984 67	1	1,532 55	. . .	. . . .
Manchester township, . .	1,908,960 00	. . .	. . . .	1	2,846 81	1½	2,816 63	. . .	. . . .
Manheim township, . . .	1,088,940 00	. . .	. . . .	½	544 47	1¼	912 85	. . .	. . . .
Monaghan township,. . .	563,093 00	. . .	. . . .	1½	790 00	3½	1,600 00	. . .	. . . .
Newberry township, , . .	861,833 64	. . .	. . . .	3¼	2,800 00	3⅓	2,474 43	. . .	. . . .
North Codorus twp. . . .	1,231,560 00	. . .	. . . .	1½	1,847 00	1¼	1,539 00	. . .	. . . .
Paradise township,. . . .	894,220 00	. . .	. . . .	1	1,188 22	3	2,682 66	. . .	. . . .
Peach Bottom township,	707,752 00	. . .	. . . .	3	2,698 26	3	2,123 26	. . .	. . . .
Shrewsbury township,. .	829,476 00	. . .	. . . .	2	2,238 95	3	2,488 42	. . .	. . . .
Spring Garden twp, . . .	2,246,440 00	. . .	. . . .	1	2,841 44	½	1,123 22	. . .	. . . .
Springfield township, . .	869,245 00	. . .	. . . .	1	1,223 00	1	839 00	. . .	. . . .
West Manheim twp., . .	505,045 00	. . .	. . . .	1	804 93	5-14	450 00	. . .	. . . .
Windsor township,. . . .	929,374 00	. . .	. . . .	1½	1,827 00	1½	1,394 00	. . .	. . . .
West Manchester twp., .	1,982,854 00	. . .	. . . .	1	2,653 00	.80	1,610 00	. . .	. . . .
Warrington township,. .	652,686 00	. . .	. . . .	2	1,730 37	1	652 69	. . .	. . . .
Washington township, .	903,936 00	. . .	. . . .	1½	1,696 15	1½	1,744 96	. . .	. . . .
York township,.	985,286 00	. . .	. . . .	2	2,495 57	1	985 28	. . .	. . . .
New Freedom borough,	134,960 00	. . .	*	2¼	386 66	. . .	. . . .	. . .	. . . .
East Prospect borough, .	76,986 00	. . .	*	2¼	223 22	. . .	. . . .	. . .	. . . .
Logansville borough, . .	110,808 00	1	$1,100 80	½	123 16	. . .	. . . .		. . . .
Franklintown borough,	38,990 00	5	194 95	2	117 80	. . .	. . . .	. . .	. . . .
Winterstown borough, .	55,474 00	. . .	*	2½	184 69	. . .	. . . .	. . .	. . . .
Manchester borough, . .	138,540 00	1	138 54	2	352 00	. . .	. . . .	. . .	. . . .
Jefferson borough,. . . .	128,102 00	. . .	*	2	342 20	. . .	. . . .	. . .	. . . .
Railroad borough, ...	100,000 00	1	100 00	1½	175 00	. . .	. . . .	. . .	. . . .
Dillsburg borough,. . . .	129,653 00	5	625 00	6	922 50	. . .	. . . .	. . .	. . . .
Dallastown borough,. . .	100,636 00	*	. . . .	1	183 64	. . .	. . . .	. .	. . . .
Glen Rock borough, . .	204,386 00	3	540 00	6	1,323 65	. .	. . . .	. . .	. . . .
Lewisberry borough, . .	61,014 00	. . .	*	5	383 07	. . .	. . . .	. . .	. . . .
Shrewsbury borough, . .	132,268 00	. . .	None.	2	347 00	. . .	. . . .	. . .	. . . .
Stewartstown borough, .	90,000 00	3	195 00	1	133 00	. . .	. . . .	. . .	. . . .
Wrightsville borough, . .	454,680 00	2	1,179 87	7	3,486 65	. .	. . . .		. . . .
Dover borough,.	174,781 00	2	246 00	3	294 00	. . .	. . . .	. . .	. . . .
Goldsboro' borough, . .	166,273 00	2½	247 53	3¼	517 18	. . .	. . . . . .	. . .	. . . .
New Salem borough,. . .	60,160 00	. . .	*	. . .	. . . .	. . .	. . . .	. . .	. . . .
Hanover borough, ...	934,786 00	3	2,804 36	2⅓	3,036 00	. . .	. . . .	. . .	. . . .
York borough, ...	6,214,560 00	4	24,000 00	3⅓	22,485 62	. . .	. . . .	. . .	. . . .
Total, ...	$41,505,200 64	. . .	$31,372 05	. . .	$93,698 90	. . .	$53,646 13	. . .	. . . .

* Not reported.

COUNTY.

Amount of water tax.	Amount of State tax.	Amount of county tax, at the rate of three and one half mills.	Amount of school debt, city or borough.	Rate of tax levied for building purposes—mills.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
......	$35 91	1,970 70	......	......	$4,500 00	......	......	.....	300
......	77 15	2,413 24	......	½	5,000 00	......	......	.....	618
......	244 59	2,815 10	......	......	1,078 00	......	......	.....	596
......	96 90	2,043 91	......	......	4,500 00	......	......	.....	334
......	206 40	5,190 20	......	½	6,000 00	......	......	.....	540
......	120 70	3,926 51	......	......	8,000 00	......	......	.....	512
......	69 43	1,507 67	......	......	4,160 00	......	......	.....	385
......	133 49	1,606 24	......	......	3,000 00	......	......	.....	216
......	521 62	6,399 31	......	......	6,600 00	......	......	.....	612
......	520 79	5,363 94	......	......	6,000 00	......	......	.....	425
......	295 82	4,198 31	915 21	......	11,000 00	......	......	.....	870
......	161 91	4,030 99	......	......	3,800 00	......	......	.....	344
......	72 44	2,207 00	......	......	6,600 00	......	......	.....	525
......	264 49	3,645 98	4,000 00	1½	14,000 00	......	......	.....	498
......	285 42	6,681 36	......	¼	12,000 00	......	......	.....	520
......	168 10	1,907 41	......	......	1,200 00	......	......	.....	273
......	68 30	1,418 72	......	......	7,000 00	......	......	$600 00	260
......	45 20	2,674 97	......	......	10,000 00	......	......	.....	515
......	227 18	4,310 46	......	1	1,231 00	......	......	.....	560
......	270 74	3,129 77	......	......	3,600 00	......	......	.....	294
......	149 68	2,477 13	......	......	7,200 00	......	......	.....	575
......	139 45	2,903 17	......	......	8,000 00	......	......	.....	580
......	440 46	7,862 54	......	......	9,600 00	......	......	.....	595
......	135 19	3,080 67	......	......	5,000 00	......	......	.....	348
......	80 95	1,696 46	......	......	2,000 00	......	......	.....	270
......	190 25	3,252 81	1,096 43	½	6,000 00	......	......	.....	450
......	491 89	6,939 98	......	¼	3,660 00	......	......	.....	406
......	179 17	2,284 40	......	......	5,400 00	......	......	.....	425
......	206 51	2,817 58	......	......	6,000 00	......	......	.....	356
......	102 28	3,448 50	......	......	8,000 00	......	......	.....	525
......	32 07	472 36	......	......	10,000 00	......	......	.....	83
......	26 33	269 45	......	......	1,400 00	......	......	.....	50
......	111 50	360 28	......	......	500 00	......	......	.....	71
......	15 04	154 67	......	......	1,150 00	......	......	.....	55
......	24 16	194 16	......	......	1,400 00	......	......	.....	46
......	8 40	463 03	$138 00	......	800 00	......	......	.....	112
......	72 30	440 36	......	......	2,000 00	......	......	.....	86
......	53 23	295 30	......	......	500 00	......	......	.....	58
......	55 47	422 30	2,200 00	......	3,500 00	......	......	.....	95
......	6 50	352 23	......	......	600 00	......	......	.....	83
......	85 52	718 64	2,500 00	......	7,000 00	$450 00	$300 00	....	144
......	14 35	213 55	......	......	2,000 00	......	......	.....	78
......	22 90	514 03	......	......	1,200 00	......	......	.....	189
......	45 20	251 23	......	......	2,000 00	......	......	.....	62
......	157 32	1,698 05	10,500 00	......	20,000 00	......	500 00	.....	380
......	231 64	611 73	454 78	......	600 00	300 00	......	.....	105
......	43 30	450 04	......	......	2,000 00	2,200 00	......	.....	84
......	13 20	210 55	......	......	......	......	......	.....	59
......	255 25	3,305 90	......	......	2,000 00	4,600 00	20,000 00	.....	696
......	1,870 70	21,578 49	15,500 00	......	125,000 00	39,000 00	26,000 00	.....	3,526
......	$9,146 89	$137,188 83	$37,304 42	......	$354,779 00	$46,550 00	$46,800 00	$600 00	19,789

COUNTY RETURNS

	Whole amount of taxable property.	Whole amount of city or borough tax.	Whole amount of school tax.	Whole amount of township or road tax.	Whole amount of poor tax.
Adams,	$11,502,956 00	$6,162 45	$37,299 44	$28,229 80	. . . .
Allegheny,	111,591,702 00	277,751 48	284,434 89	89,920 60	. . . .
Armstrong,	9,645,836 00	14,062 97	70,435 25	32,009 53	$29,660 58
Beaver,	6,455,801 00	17,093 58	58,573 76	23,733 19	. . . .
Bedford,	8,185,244 00	4,425 21	43,692 27	30,598 67	. . . .
Berks,	76,951,251 00	166,116 76	172,503 80	70,083 94	. . . .
Blair,	7,928,568 50	7,014 83	68,053 00	14,821 96	. . . .
Bradford,	7,302,345 00	15,707 43	66,319 44	53,782 43	24,846 20
Bucks,	19,813,033 00	10,190 61	111,429 50	57,156 15	. . . .
Butler,	7,684,855 66	16,863 68	64,732 86	58,705 03	8,754 33
Cambria,	4,174,749 33	2,231 92	43,978 75	23,660 31	. . . .
Cameron,	746,956 00	1,125 44	8,161 52	8,114 90	2,186 36
Carbon,	3,569,678 86	5,742 17	45,373 10	13,740 60	7,830 43
Centre,	9,960,425 00	540 69	44,149 47	29,755 17	13,795 64
Chester,	50,829,566 88	21,464 74	142,819 59	88,772 41	. . . .
Clarion,	3,967,228 00	3,160 98	42,142 90	34,247 39	10,176 36
Clearfield,	6,782,255 00	3,088 68	36,616 59	36,013 92	6,438 74
Clinton,	3,459,061 00	2,164 61	33,885 96	16,471 40	7,133 97
Columbia,	5,276,906 00	11,756 40	43,855 93	28,450 37	16,048 99
Crawford,	18,446,190 00	115,901 43	105,938 28	55,583 68	2,664 31
Cumberland,	13,795,332 50	8,482 50	77,618 37	39,940 63	. . . .
Dauphin,	11,133,096 50	6,068 24	63,851 85	37,235 63	. . . .
Delaware,	32,036,715 00	15,090 48	94,530 63	44,951 41	. . . .
Elk,	2,273,345 00	1,923 84	22,514 75	20,001 32	3,435 45
Erie,	35,061,370 00	207,020 58	149,490 40	35,699 43	1,330 72
Fayette,	15,551,613 00	12,043 99	65,894 26	42,337 79	. . . .
Forest,	1,511,878 00	1,163 13	12,451 07	11,829 03	. . . .
Franklin,	16,955,659 43	15,267 67	70,294 87	29,747 26	. . . .
Fulton,	1,181,891 75	233 06	7,942 37	6,732 71	1,843 38
Greene,	6,182,884 00	126 00	31,455 87	28,263 70	. . . .
Huntingdon,	5,400,938 43	8,188 26	41,590 83	26,199 19	. . . .
Indiana,	8,695,400 00	6,466 33	42,744 26	32,611 63	. . . .
Jefferson,	2,214,855 00	4,314 50	27,840 41	18,335 73	. . . .
Juniata,	2,611,342 56	1,211 23	21,203 93	14,111 29	. . . .
Lancaster,	89,294,672 50	99,689 57	216,050 92	88,562 72	1,511 24
Lawrence,	4,687,932 83	. . . .	44,247 68	27,133 17	9,278 20
Lebanon,	11,587,231 00	14,807 44	57,582 56	31,541 34	. . . .
Lehigh,	34,868,208 04	41,000 33	108,194 33	31,934 94	. . . .
Luzerne,	32,617,029 54	217,920 48	355,621 58	97,589 21	87,388 28
Lycoming,	18,708,929 00	54,558 38	102,519 99	57,439 98	13,067 45
McKean,	1,892,840 76	1,100 00	23,306 70	18,929 40	4,687 11
Mercer,	19,443,586 19	20,767 46	76,295 55	51,611 37	. . . .
Mifflin,	3,891,288 00	4,301 62	26,013 07	16,082 35	. . . .
Monroe,	1,653,470 00	8,262 75	18,723 20	15,122 40	6,247 33
Montgomery,	39,206,523 94	18,597 04	155,611 82	112,341 49	. . . .
Montour,	2,350,682 00	. . . .	20,641 10	7,525 19	1,742 39
Northampton,	45,096,320 00	27,072 69	71,732 44	45,377 09	. . . .
Northumberland,	7,667,906 00	16,409 14	73,417 29	39,486 04	23,841 98
Perry,	6,005,703 00	4,752 19	29,725 78	24,629 30	. . . .
Philadelphia,	694,024,177 00	13,206,933 06	. . . .	. . . .	. . . .
Pike,	976,655 00	. . . .	11,060 99	8,845 03	4,551 35
Potter,	1,083,767 00	468 80	14,778 65	22,094 84	6,025 89
Schuylkill,	33,904,261 75	79,130 89	221,162 02	71,724 64	2,269 40
Snyder,	3,220,114 00	. . . .	18,822 25	18,239 07	2,056 00
Somerset,	5,263,374 00	3,147 03	34,391 02	25,780 88	. . . .
Sullivan,	664,028 00	169 84	8,326 04	10,951 93	183 00
Susquehanna,	3,927,076 00	5,690 30	46,510 63	38,485 28	17,169 07
Tioga,	6,676,129 00	9,060 23	61,428 85	46,465 46	. . . .
Union,	5,159,722 00	2,411 34	22,202 53	8,880 10	2,000 00
Venango,	15,185,549 00	29,056 42	98,581 35	42,867 88	. . . .
Warren,	10,002,932 00	10,597 64	47,090 88	31,451 46	. . . .
Wayne,	6,279,627 00	6,227 19	49,329 68	22,080 14	9,716 17
Washington,	35,392,606 00	21,661 60	119,549 96	61,480 17	. . . .
Westmoreland,	22,819,711 00	10,600 32	94,245 71	80,778 57	. . . .
Wyoming,	4,401,292 00	755 00	15,016 25	15,327 52	3,397 30
York,	41,505,200 64	31,372 05	93,698 90	53,646 13	. . . .
Total,	$1,738,339,473 59	$14,936,686 77	$4,589,699 89	$2,406,253 26	$331,277 62

CONSOLIDATED.

Amount of State tax.	Amount of county tax.	Amount of school debt, city or borough.	Value of school buildings.	City or borough debt.	Value of city or borough property.	Bounty debt.	Number of taxables.
$2,791 47	$35,114 88	. . . .	$99,200	$11,587 00	$1,600 00	. . . . . .	9,377
17,290 56	666,791 42	$522,638 65	1,332,680	1,921,795 23	4,117,120 00	. . . . . .	88,141
756 55	76,992 86	. . . .	197,300	14,201 62	61,015 00	. . . . . .	11,930
4,062 22	84,493 56	34,925 45	167,500	42,569 10	41,515 20	. . . . . .	9,408
974 66	50,289 20	. . . .	95,700	974 77	875 94	$541 00	10,304
11,397 84	136,625 16	91,342 55	469,600	1,137,024 64	930,084 50	. . . . . .	29,521
2,751 26	66,172 66	37,148 59	187,400	31,000 00	. . . .	. . . . . .	10,174
703 10	51,319 36	18,259 20	205,900	26,907 11	25,097 61	. . . . . .	16,571
10,404 53	116,223 77	13,464 45	240,737	10,375 28	2,000 00	. . . . . .	18,461
. . . . . .	62,014 63	18,188 19	172,510	11,650 00	22,600 00	. . . . . .	14,573
1,315 00	44,849 79	6,889 58	129,170	1,012 97	. . . .	. . . . . .	8,302
72 90	8,267 37	1,990 41	21,540	12,350 02	1,000 00	. . . . . .	1,414
487 48	38,861 36	12,944 10	145,100	. . . .	7,000 00	15,487 57	7,756
3,150 73	42,152 43	2,079 70	142,733	2,392 41	75 00	. . . . . .	10,677
17,457 33	151,472 61	68,795 20	483,000	338,077 62	175,900 00	. . . . . .	19,859
1,402 97	36,666 99	4,193 03	100,500	4,941 00	3,196 74	. . . . . .	8,900
1,549 83	37,083 71	19,943 19	112,929	7,532 02	2,700 00	. . . . . .	7,877
452 49	34,135 73	14,000 00	97,513	62,971 53	63,767 00	100 00	6,978
623 24	39,358 48	14,818 57	139,200	62,756 35	3,541 90	. . . . . .	7,620
2,010 13	137,296 28	91,335 40	335,000	424,542 26	150,012 23	. . . . . .	20,491
5,272 83	68,396 50	14,584 82	246,000	30,447 00	7,700 00	. . . . . .	13,549
3,853 47	168,001 90	22,894 81	252,366	16,218 00	3,000 00	. . . . . .	18,698
11,504 62	130,106 41	18,023 29	353,700	71,811 38	3,000 00	. . . . . .	10,194
321 78	18,169 91	. . . .	44,600	13,294 27	2,000 00	. . . . . .	2,697
931 98	87,521 87	30,500 00	550,300	927 92	90,458 73	53,281 16	19,513
3,120 83	81,616 76	26,081 02	280,000	21,100 00	7,300 00	. . . . . .	14,314
192 32	15,111 72	. . . .	24,325	854 84	200 00	. . . . . .	983
5,857 35	71,350 22	15,355 74	222,900	95,700 00	2,000 00	. . . . . .	13,030
200 93	9,130 15	. . . .	24,850	240 00	. . . .	1,900 00	2,757
1,491 43	53,170 81	2,872 15	134,900	520 00	. . . .	. . . . . .	7,029
987 16	53,918 52	2,866 41	126,186	11,525 95	98,300 00	1,529 00	8,484
2,179 08	60,386 44	6,914 00	175,447	22,453 50	3.000 00	. . . . . .	10,690
736 87	22,638 11	1,947 50	110,740	5,801 53	900 00	. . . . . .	6,563
407 72	22,232 39	743 40	65,955	1,133 29	516 00	2,734 00	4,836
37,224 30	216,920 31	84,821 00	657,346	871,553 75	782,814 00	3,000 00	37,353
615 50	46,548 02	638 00	109,600	350 00	. . . .	. . . . . .	8,920
5,959 12	57,997 00	25,125 31	186,030	301,012 28	8,000 00	. . . . . .	9,156
9,052 45	105,903 30	433,565 08	625,033	515,716 54	288,190 00	1,145 00	18,540
2,023 13	154,803 81	73,255 61	944,926	631,032 08	217,899 00	5,444 56	47,690
3,473 60	55,577 19	17,693 36	307,182	242,320 03	99,100 00	. . . . . .	15,649
408 68	14,859 25	5,185 93	72,800	5,393 91	. . . .	. . . . . .	3,723
2,289 73	64,481 91	4,741 65	252,550	56,327 69	23,000 00	. . . . . .	15,250
1,325 24	36,858 16	25,716 36	132,000	. . . .	5,000 00	. . . . . .	5,518
137 39	17,249 65	1,554 75	51,400	25,949 98	2,000 00	493 71	4,514
19,919 13	157,399 65	50,724 61	435,000	42,564 14	7,600 00	700 00	24,022
488 27	16,793 73	252 35	56,600	. . . .	. . . .	. . . . . .	3,331
10,456 29	90,499 80	62,750 50	345,894	162,331 60	43,597 00	2,400 00	19,019
910 88	75,505 12	24,420 25	244,400	87,606 52	7,200 00	. . . . . .	14,463
1,615 22	34,967 80	8,196 99	124,138	1,600 00	1,545 00	3,400 00	7,957
168,693 43	. . . .	. . . .	. . . .	61,394,861 70	. . . .	. . . . . .	178,019
234 34	19,760 42	839 73	42,400	3,499 00	. . . .	. . . . . .	3,077
16 25	11,482 31	1,692 30	65,200	27,706 23	. . . .	2,000 00	3,723
1,588 30	236,975 58	147,045 30	757,100	209,919 77	196,098 00	600 00	29,883
681 47	12,167 22	. . . .	72,500	600 00	. . . .	. . . . . .	5,113
2,766 35	37,098 29	10,631 00	137,650	5,282 55	8,800 00	. . . . . .	7,473
27 30	6,830 45	18 25	21,400	850 00	. . . .	. . . . . .	1,999
447 85	36,960 99	1,950 00	128,100	3,150 00	. . . .	2,000 00	11,723
2,012 06	56,208 58	44,310 16	143,650	20,671 06	6,996 00	2,565 89	12,124
867 18	17,964 20	7,000 00	67,500	. . . .	. . . .	. . . . . .	4,441
2,694 10	108,416 62	37,500 00	205,500	101,857 00	34,424 00	. . . . . .	17,103
2,056 47	29,525 75	17,980 55	182,600	18,711 00	19,000 00	. . . . . .	7,629
1,103 10	22,525 73	1,867 60	98,975	2,484 00	. . . .	303 36	9,394
2,661 95	117,898 77	6,501 12	272,100	62,801 24	37,820 00	150 00	14,908
2,138 60	112,531 69	15,118 75	307,150	15,463 00	1,830 00	. . . . . .	19.062
768 09	19,130 78	579 00	52,900	3,200 00	. . . .	. . . . . .	3,899
9,146 89	137,188 83	37,304 42	354,779	46,550 00	46,800 00	600 00	19,789
$410,515 32	$4,855,793 76	$2,261,847 08	$14,941,884	$69,278,053 68	$7,665,188 85	$100,375 24	1,035,448

COMMISSIONERS' OFFICE, SOMERSET COUNTY,
SOMERSET, PA., *August 6, 1877.*

W. HAYES GRIER, Esquire,

DEAR SIR: It gives me pleasure, after a great deal of time and labor, to send you what I believe to be the most complete statistical report yet received by you from any county. I know it is the most complete ever furnished from Somerset. Last year, being centennial year, I made special effort to obtain complete statistics of agriculture, manufactures, &c., &c., with the result, as per inclosed returns. The one table contains products of grain and stock only. The other, buildings and value, manufactures, churches, denominations, &c. The expense to the county in obtaining all this vast amount of information, has not exceeded, in my estimamation, fifty dollars. The work was done by the assessors, when making assessments, and did not consume much extra time. My labor has been quite considerable, having put in steady work for three weeks just past, in footing up and getting the various products in shape, but give my labor cheerfully, if it is of any value in the way of inducing others to do likewise. An act passed, compelling counties to take such statistics once in three or five years, would, I should think, be very valuable.

This is the first effort. I did not succeed as well as I should like, but you undoubtedly know that it is very hard to procure statistical information perfect in all respects. I am well acquainted with the county, and believe, (with the exception of the values of those marked on the report,) to be a fair return of everything. Hoping that the reports may be of some benefit to you, I am,

Respectfully yours,
WM. M. SCHROCK,
Clerk.

SOMERSET COUNTY, FOR 1876.

Statistical Report of the number of Dwellings, Barns, Mills, Saw-mills, School-houses, Churches, &c., and Value, number of feet Lumber, Bushels, Coal, Lime, &c., Members of Churches, &c., &c.

DISTRICTS.	Dwellings, hotels, &c.	Value.	Barns, &c.	Value.	Grist mills.	Value.	Machine shops.	Value.	Foundries.	Value.
	No.	Dollars.	No.	Dollars.	No.	Dolls.	No	Dolls.	No	Dolls.
1. Addison township, ...	206	23,350	103	15,540	2	5,500	1	5,800	1	2,000
2. Allegheny township.	207	26,730	187	25,910	. . .	. . . .	. .	. . . .	. .	. . . .
3. Berlin borough, ...	130	100,000	103	24,000	. . .	. . . .	. .	. . . .	1	3,000
4. Brothersvalley township, . .	253	206,500	231	130,300	4	1,800	1	6,000	. .	. . . .
5. Conemaugh township, . . .	180	64,905	170	61,035	4	7,000	. .	. . . .	. .	. . .
6. Confluence borough, ...	89	73,800	38	5,000	. . .	. . . .	1	1,200	. .	. . . .
7. Elklick township, ...	187	96,500	161	82,435	4	10,000	1	500	. .	. . . .
8. Greenville township, ...	96	25,000	80	15,000	. . .	. . . .	. .	. . . .	. .	. . . .
9. Jefferson township, ...	156	59,000	101	48,200	2	2,800	. .	. . . .	. .	. . . .
10. Jenner township, ...	324	260,000	312	124,000	5	6,000	3	5,000	. .	. . . .
11. Jennerville borough, ...	17	8,500	15	4,400	. . .	. . . .	. .	. . . .	. .	. . . .
12. Larimer township, ...	126	31,500	74	13,700	1	1,500	. .	. . . .	. .	. . . .
13. Lower Turkeyfoot township,	145	30,000	114	17,000	1	600	1	300	. .	. .
14. Middlecreek township, . . .	76	37,290	97	33,590	3	1,700	1	1,000	. .	. . . .
15. Milford township, ...	283	300,000	279	200,000	3	3,000	2	6,000	.	. . . .
16. Meyersdale borough, ...	174	214,000	49	15,000	1	4,200	7	39,500	1	2,500
17. New Centreville borough, . .	35	14,000	35	4,200	. . .	. . . .	. .	. . . .	. .	. . . .
18. Northampton township, . .	120	100,000	60	80,000	3	3,000	. .	. . . .	. .	. .
19. New Baltimore borough, . .	29	15,500	26	4,000	1	2,000	. .	. . . .	. .	. . . .
20. Paint township, ...	181	44,260	141	33,860	2	8,000	1	275	. .	. . . .
21. Quemahoning township. . . .	143	97,820	133	85,610	4	11,000	2	3,000	. .	. . . .
22. Salisbury borough, ...	87	45,000	80	6,400	. . .	. . .	1	1,000	1	3,000
23. Shade township, ...	242	122,250	198	56,893	1	1,600	. .	. . . .	. .	. . . .
24 Somerset borough, ...	233	250,000	138	35,000	. . .	. . . .	.	. . . .	. .	. . . .
25. Somerset township, ...	458	259,900	448	122,565	4	2,000	1	500	. .	. . . .
26. Southampton township, . . .	125	27,670	93	16,210	1	1,200	1	800	. .	. . . .
27. Stonycreek township, ...	163	106,000	135	77,900	3	12,000	2	6,500	. .	. . . .
28. Stoystown borough, ...	58	75,000	45	7,195	. . .	. . . .	1	600	1	600
29. Summit township, ...	300	210,000	267	133,500	1	3,000	1	. . . .	. .	. . . .
30. Upper Turkeyfoot township,	126	11,286	110	7,855	1	300	. .	. . . .	. .	. . . .
31. Ursina borough, ...	79	40,000	51	7,800	1	1,000	. .	300	. .	. . . .
32. Millersburg borough, ...	55	13,700	45	4,000	1	1,100	. .	. . . .	. .	. . . .
Total, ...	5,083	2,989,461	3,119	1,498,098	53	90,300	28	78,275	5	11,100

SOMERSET COUNTY, FOR 1876.

DISTRICTS.	School-houses.	Value.	Saw-mills.	Value.	Lumber.	Value.	Lime quarries.	Value.	Lime.	Value.	Coal.
	No	Dolls.	No	Dolls.	Feet.	Dolls.	No	Dolls.	Bushels.	Dolls.	Bush's.
1. Addison township, .	12	4,500	6	2,800	163,000	. . .	11	. . . .	80,000	8,000	22,000
2. Allegheny township,	9	1,950	7	10,500	50,000	. . . .	. .	. . . .	. . . . .	. . .	. . . .
3. Berlin borough, . . .	1	5,000	. .	. . . .	. . . . . .	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
4. Brothersvalley twp,	10	7,000	12	8,200	960,000	. . . .	30	. . . .	275,000	22,000	172,500
5. Conemaugh twp, . .	10	4,000	4	1,250	20,000	. . . .	5	450	10,000	. . . .	. . . .
6. Confluence borough,	1	900	. .	. . . .	. . . . . .	. . . .	1	. . . .	5,000	. . .	. . . .
7. Elklick township, .	10	3,000	9	4,250	150,000	. . . .	33	. . . .	149,700	. . . .	100,500
8. Greenville twp, . . .	5	1,500	13	3,700	3,015,000	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
9. Jefferson township,	6	2,100	11	1,900	250,000	2,500	12	. . . .	79,900	7,900	44,000
10. Jenner township, . .	14	6,000	14	11,200	500,000	. . . .	2	. . . .	55,000	. . . .	91,000
11. Jennerville borough,	1	435	. .	. . . .	. . . . . .	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
12. Larimer township, .	4	1,600	12	2,400	1,009,500	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
13. L'r Turkeyfoot twp,	6	1,700	3	2,500	356,000	5,350	10	. . . .	94,000	9,400	. . . .
14. Middlecreek twp, . .	3	1,200	4	3,300	818,500	. . . .	4	1,000	34,600	. . . .	20,000
15. Milford township, .	12	9,600	10	5,500	4,500,000	. . . .	8	. . . .	450,000	. . . .	80,000
16. Meyersdale borough,	1	8,000	. .	. . . .	. . . . . .	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
17. New Centreville bor.	1	800	. .	. . . .	. . . . .	. . . .	. .	. . . .	. . . . .	. . . .	. . .
18. Northampton twp, .	7	1,500	8	4,000	4,000,000	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
19. New Baltimore bor.,	1	500	. .	. . . .	. . . . . .	. . . .	. .	. . . .	. . . .	. . . .	. . . .
20. Paint township, . .	9	2,335	16	17,250	445,000	. . . .	2	1,000	6,000	. . .	17,000
21. Quemahoning twp, .	10	6,000	8	3,800	415,000	. . . .	3	. . .	28,600	. . . .	45,700
22. Salisbury borough, .	1	3,000	. .	. . . .	. . . . . .	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
23. Shade township, . .	11	3,417	12	4,900	818,500	. . . .	4	3,500	3,500	. . . .	31,175
24. Somerset borough, .	2	10,000	. .	. . . .	. . . . . .	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
25. Somerset township,	22	6,600	6	10,000	319,000	3,190	44	. . . .	27,107	2,710	1,423,495
26. Southampton twp, .	5	1,000	1	1,500	10,000	. . . .	. .	. . . .	. . . . .	. . . .	10,000
27. Stonycreek twp, . .	11	8,000	9	10,000	760,000	. . . .	6	. . . .	21,000	. . . .	37,250
28. Stoystown borough,	1	900	. .	. . . .	. . . . .	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
29. Summit township, .	9	5,400	4	2,000	472,600	. . .	10	. . . .	32,350	. . . .	†35,000
30. U. Turkeyfoot twp,	9	1,800	7	1,400	660,000	. . . .	3	. . . .	8,000	. . . .	25,000
31. Ursina borough, . .	1	5,000	2	500	. . . . . .	. . . .	. .	. . . .	. . . . .	. . . .	. . . .
32. Millersburg boro', .	1	400	. .	. . . .	. . . . .	. . . .	. .	. . . .	. . . . .	. . . .	1,400
Total, ...	206	115,137	78	112,850	19,692,100	*	188	*	1,359,757	*	2,156,020

* Returns incomplete.

† In addition to the number of bushels coal returned by this township, there were also mined and sold by the Elklick and Cumberland Coal Company, 29,480 tons, and by the Keystone Coal Company, 108,688 tons.

STATISTICAL REPORT, &c.—Continued.

Churches.	Value.	Lutheran.	Disciple.	United Brethren.	Evangelical Assoc'n.	Reformed.	Methodist.	German Baptist.	Catholic.	Menonites.	Church of God.	Baptist.	Presbyterian.	Omish.	Episcopal.	Adventist.	Buildings burned.	Value.
No	Dollars.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No	No	No	No	No	No	No	Dolls.
5	10,000	120	10	...	25	...	260	25										
6	1,850	98	...	..	...	50	20	40	20									
4	7,375	240	10	...	...	350	65	...	..	..	..	..	..	..	..	..	2	4,100
7	5,000	170	...	10	20	180	25	770	..	..	..	..	..	..	..	..	2	3,800
4	2,200	70	...	40	...	15	..	35	40	150	..	..	..	60				
2	5,500	40	...	...	...	110	20	...	..	..	..	6	4	..	..	..	2	2,500
4	12,000	125	10	10	10	160	10	100	9	28	..	2	..	80	..	3		
2	8,000	57	...	...	12	53	..	25	28	..	..	..	..	..	..	..	3	1,000
2	2,700	195	15	10	10	30	...	60	..	..	..	10	1	..	..	..	1	800
7	20,000	140	...	30	40	100	50	75	8	..	..	25						
2	3,000	25																
1	500	95	...	3	25	75	5	20	14									
3	1,000	10	...	..	...	10	75	10	..	..	50	65	..	..	..	..	1	1,500
1	1,000	75	35	...	. .	20	25	15	..	..	..	..	..	..	..	..	1	425
10	10,000	160	15	75	20	100	25	100	35									
6	17,000	30	5	...	13	35	84	103	110	..	..	20	11	..	38	..	9	21,000
3	15,300	120	25	...	...	70	...	...	.		..	..	..	..	..	..	1	500
3	3,000	80	...	...	50	80	10	20										
1	4,000	....	...	...	...	...	...	...	198									
6	5,000	105	...	12	...	...	...	130	7	10	..	..		..	..	..	4	1,400
3	5,000	231	5	10	10	78	15	30	..	13	..	11	..	..	..	..	1	700
3	6,100	62	...	...	...	19	29											
4	4,400	104	68	21	24	...	...	...	..	..	..	..	..	..	..	..	1	1,000
6	50,000	175	200	...	30	75	75	...	..	..	..	..	25	..	10	..	29	120,000
15	12,400	433	50	100	94	125	20	100	..	..	7	40	7	..	..	..	3	5,700
4	4,000	70	...	...	15	74	11											
8	6,000	188	10	92	40	125	1	80	6	5								
3	6,100	62	...	...	...	19	29											
3	6,000	25	...	25	15	169	70	231	25									
6	3,000	50	...	70	10	...	100	35	..	.	70		..	..	..		1	200
3	4,000	30	...	...	...	...	35	...	..	..	45							
2	2,000	40	...	...	20	30												
140	243,425	3,425	458	511	483	2,152	1,059	1,404	500	166	172	179	48	140	48	3	61	164,325

Under the head of machine shops is also included manufactures of sash, doors, woolen goods, &c. The assessors got the two confounded.

Certified this 6th day of August, 1877.

W. M. SCHROCK,
Clerk to County Commissioners.

Report of Agricultural Statistics of

		Wheat.	Rye.	Corn.	Buckwheat.	Oats.
No.	DISTRICTS.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.
1	Addison township,	5,450	3,113	20,880	6,172	20,100
2	Allegheny township,	4,790	9,105	9,915	3,360	16,992
3	Berlin borough,	275	141	2,925	35	1,005
4	Brothersvalley township,	9,514	5,277	25,630	1,725	51,895
5	Conemaugh township,	7,020	3,320	20,700	682	28,986
6	Confluence borough,	122	90	4,260	52	335
7	Elklick township,	9,535	1,571	12,677	2,012	36,374
8	Greenville township,	548	2,827	628	2,205	6,882
9	Jefferson township,	3,340	1,187	9,980	2,300	18,540
10	Jenner township,	8,050	2,975	24,445	2,340	29,415
11	Jennerville borough,	78	55	297	85	440
12	Larimer township,	185	3,150	1,245	2,515	4,015
13	Lower Turkeyfoot township,	3,828	248	23,432	1,428	13,073
14	Middlecreek township,	2,555	750	6,455	2,055	14,835
15	Milford township,	6,371	2,301	16,256	2,601	29,980
16	Meyersdale borough,	160	30	395	......	855
17	New Centreville borough,	12	......	260	10	136
18	Northampton township,	1,520	2,000	5,250	1,000	3,000
19	New Baltimore borough,	310	130	510	90	430
20	Paint township,	2,350	2,230	2,625	1,790	13,607
21	Quemahoning township,	7,639	6,438	12,285	1,172	22,381
22	Salisbury borough,	395	25	894	10	94
23	Shade township,	1,965	4,215	7,316	5,075	25,842
24	Somerset borough	16	22	1,165	60	440
25	Somerset township,	10,510	8,315	21,255	4,310	61,600
26	Southampton township,	2,220	5,320	8,705	1,807	4,270
27	Stonycreek township,	2,335	6,445	3,680	2,575	34,360
28	Stoystown borough,	91	145	1,075	10	580
29	Summit township,	9,515	1,470	12,880	1,685	24,974
30	Upper Turkeyfoot township,	2,741	1,340	7,887	2,632	16,149
31	Ursina borough,	138	......	2,600	6	280
32	Wellersburg borough,	376	620	2,346	90	330
	Total,	103,954	74,854	269,853	51,892	482,202

Somerset County, for the Year of 1876.

Barley.	Potatoes.	Hay.	Butter.	Maple Sugar.	Horses.	Cattle.	Sheep.	Hogs.
Bushels.	Bushels.	Tons.	Pounds.	Pounds.	Number.	Number.	Number.	Number.
42	4,808	1,995	43,200	21,930	498	1,586	1,515	1,075
16	3,375	1,290	17,100	3,430	376	1,055	872	841
10	4,001	237	2,400	100	40	103	5	235
1,040	15,601	5,527	93,700	76,990	995	3,180	1,776	715
60	3,985	2,865	45,600	12,059	615	1,497	1,209	935
......	380	36	1,500	30	24	49	5	115
67	7,290	4,060	72,000	111,700	560	1,710	1,015	597
......	5,617	692	15,300	2,225	161	489	385	413
101	4,745	1,930	44,100	41,125	607	1,475	850	318
1,390	6,975	2,800	71,100	25,810	1,050	2,502	1,510	690
......	174	65	660	300	13	37	5	25
......	3,470	450	9,900	130	200	425	370	270
35	1,403	813	21,720	1,411	331	953	693	584
230	2,838	1,640	26,400	17,835	272	843	956	336
430	9,664	3,599	61,320	30,165	756	2,595	1,713	720
......	1,535	283	6,360	......	56	67	......	147
14	273	31	660	......	20	24	6	10
50	1,200	200	9,000	3,000	160	400	200	300
......	260	48	600	......	27	56	3	89
102	5,067	1,230	31,200	17,050	437	1,177	1,105	700
1,805	6,453	2,355	56,220	16,122	747	1,980	1,075	444
......	1,955	95	2,160	......	27	63	22	85
166	6,700	1,815	35,400	44,456	625	1,537	1,610	1,070
314	1,490	314	2,580	......	62	70	2	160
278	23,220	8,150	148,500	48,555	1,320	5,210	3,125	1,715
60	1,635	701	18,000	6,155	240	713	365	567
515	13,000	3,865	69,900	74,935	1,070	2,686	725	770
......	830	143	660	2,000	30	61	15	85
706	7,130	2,510	54,600	43,499	497	1,540	870	535
197	3,498	1,455	33,420	18,190	362	1,101	974	408
....	600	20	600	......	12	41	......	50
......	375	85	900	1,300	41	81	9	104
7,528	149,636	51,309	996,760	620,592	12,931	35,215	22,987	15,106

Certified at Somerset, Pa., this 6th day of August, 1877.

W. M. SCHROCK,
Clerk to County Commissioners.

PAPER AND ITS MANUFACTURE.

By W. D. BLACKBURN, *Mechanicsburg, Cumberland County, Pa.*

The word "paper" is derived from the latin *papyrus*, a species of reed or flag common in many warm countries, and especially in Egypt.

At a very remote period, characters were engraved on flat stones, made smooth, impressed in clay, which was afterwards dried or hardened by sun or fire. Also, on plates of ivory, metal, and on thin boards covered with wax. But more convenient material was afforded by the use of skins and intestines of animals, and leaves of certain species of trees, which were made fit for writing upon.

With the exception of parchment, which is still used for certain purposes, these were superseded by the introduction of Egyptian papyrus, an article resembling modern paper, made in Egypt from an aquatic plant, having a soft, cellular flower stem, affording the material. The stem of the flower grew from ten to twenty feet high, of a triangular shape, from the thin coats or pellicles of which, after being washed with Nile water, the paper was made.

Clavigero, in his history of Mexico, claims that the invention of paper is more ancient in America than in Egypt, from whence it was communicated to Europe. The ancient Mexicans made great use of paper manufactured from leaves and thin bark of trees, by a process not known, but was used more for painting than writing. Herodotus, the Greek historian, who was born about 485 B. C., testifies that it was an article of commerce and a material for writing long before his time. The Romans afterwards improved upon the papyrus made by the Egyptians, that of the Romans being very white, and that of the Egyptians of a yellowish or brown tinge.

For a long time it was the principal manufacturing interest of Alexandria and other cities of Egypt. Europe and Asia were supplied therefrom for several centuries.

An instrument, written in Latin, on papyrus, eight and a half feet in length by one foot wide, containing a deed of sale of a house and lands in the territory of Rimini, dated at Ravenna, 3d June, in the seventh year of the reign of Justin the Younger, A. D. 572, is now to be seen in the British museum, London.

The art of making paper from fibrous matter, reduced to a pulp in water, appears to have been first discovered by the Chinese, about eighteen hundred years ago, the greater part being made from the inner bark of the bamboo and mulberry tree, called by them the paper tree, hempen rags, &c. By their process of manufacture, they are enabled to make sheets of paper ten or twelve feet long, and very wide. The Japanese also make a good quality of paper from the mulberry.

In the seventh century, the Arabians appear to have either discovered, or to have learned from the Chinese or Hindoos, quite likely from the latter, from their conquests in Tartary, the art of making paper from cotton. A manufactory of such paper was established at Samarcand, about the year A. D. 706. The Arabians seem to have carried the art into Spain, and to have there made paper from linen and hemp, as well as from cotton. The art of manufacturing paper from cotton, seems to have made its way into Europe in the eleventh century. The first paper of that kind was made from raw cotton, but its manufacture, by Arabians, seems to have extended to all worn out cotton.

In the latter part of the fourteenth century, cotton paper, in England, was gradually supplanted by linen paper, which began to be used in 1342. The oldest manuscript in England, written upon cotton paper, is the Bodlean collection of the British museum, dated A. D. 1049. The most ancient manuscript on cotton paper that has been discovered in the royal library at Paris, having a date, bears record of this year. The earliest French manuscript, on linen paper, bears date 1314, and of English, 1320.

The first known paper mill in the world, was established at Nuremburg, in Germany, about the middle of the fourteenth century. The first paper mill in England was built about 1498.

The manufacture of wall paper began about 1640, as a substitute for the ancient hangings of tapestry or cloth, which has reached a high state of beauty and perfection.

In 1712, the first paper mill in Russia was erected at Moscow by direction of Peter the Great. The first attempt to manufacture paper from straw was made in Germany, in 1756.

The manufacture of paper early became a very flourishing production in France, large quantities being exported to all parts of Europe, until the beginning of the present century, when the art of paper making had arrived at a great degree of perfection in England and Holland, whereby the export from France was so much reduced that of four hundred paper mills in two provinces three hundred were discontinued. Paper was first made in an endless web in France, in 1799.

"William Rittinghuysen, now spelled Rittenhouse, the first paper maker in America, a native of Broich, in Holland, emigrated to America about 1688, and settled in Germantown, Philadelphia county, Pa., and afterwards removed to Roxborough, (now the twenty-first ward of Philadelphia,) where, in connection with William Bradford, the first printer in Pennsylvania, and others, erected the first paper mill in America, about the year 1690, the mill being built of logs, and on a stream of water which empties into Wissahickon creek, about a mile above its confluence with the Schuylkill river, in the township of Roxborough. This stream still bears the name of *Paper Mill run*. In 1700, or 1701, this mill was carried away by a freshet. In 1702, another mill, built of stone, was erected by the Rittenhouses, near the spot where the first mill stood. The paper was made of linen rags. William Rittenhouse died in 1708, aged 64, leaving his share in the mill to his son, Nicholas, who carried on the business until May, 1734, when he died. He deeded the mill to his eldest son, William Rittenhouse, and when he died the mill property fell to his son, Jacob Rittenhouse, also a paper maker, who carried on the business until 1811. So that the paper making business was carried on by the same family for a period of *one hundred and twenty-one years* at the same place."—*Essay, Hon. Horatio G. Jones, of Philadelphia, in Penna. Hist. Soc. Trans.*

The manufacture of paper at this mill was continued by a family named Markle, who carried on the business there for many years.

The second paper mill in America was erected on the west side of Wissahickon creek, in that part of Germantown known in early times as Crefeld, near the line of the present Montgomery county, in 1710, by William De Wees, who was a brother-in-law to Nicholas Rittenhouse, son of the first paper maker. In 1729, the third paper mill was erected on the west branch of Chester creek, Delaware county, Pa., about twenty miles from Philadelphia, by Thomas Wilcox. It was built of brick, and is known as the old "Ivy mills," which are still to be seen, covered with ivy. The paper manufacturing business of the Wilcox family has extended through four generations, during a period of nearly *one hundred and fifty years*, and their house is at this time not only the oldest paper house, but the oldest business house of any kind in the United States. The currency paper of the colonies, the paper for all the continental currency, and the paper for currency issued during the war of 1812, was all manufactured at the Ivy mills, which continued this special manufacture until 1862, at which time it was the last "hand mill" in operation in the United States.

Glen mills, two separate establishments, situate a quarter of a mile apart, on the south side of Chester creek, and about three miles from the old Ivy mills, are owned and operated by Mark and James Wilcox, great grandsons of Thomas Wilcox, and are run by both steam and water power. The largest of the two is run as two separate and distinct departments, a paper mill, and a branch of the United States Treasury Department, where all the paper for the government which is used for greenbacks, fractional currency, revenue stamps, notes, bonds, checks, &c., is manufactured on a 72-inch Fourdrinier machine.

Engines were not used in the American paper mills before 1756. Prior to this time, rags for making paper were pounded. The increase of paper mills in the Provinces of Pennsylvania, New Jersey, and New York, was, in a great measure, due to the enterprise of the printers and publishers of Philadelphia, which was then, as it is now, the literary metropolis of the country.

The Fourdrinier machine, well known on both sides of the Atlantic, was introduced by Henry and Sealy Fourdrinier in London, in 1804.

In former times various wire and water marks were applied to paper to distinguish it—these marks consisted, for instance, of an ox head, and star, a collared dog's head, a crown, a shield, a jug, etc. A head with a fool's cap and bells gave name to the paper called foolscap, and post paper seems to have derived its name from the mark of a horn, which was formerly carried by the postman, and blown to announce his arrival. Hand-made paper is now commonly marked with the name of the maker and the date of the year when it was made.

This article, being necessarily brief, precludes an enumeration of the numerous and varied improvements that have, from time to time, marked the progress of paper and the machinery used in its manufacture. We make mention, however, of a few of the more important improvements in this branch of industry, that have been made by citizens of our own State.

In 1816, a paper-mill went into operation in Pittsburgh, with a steam engine of 16-horse power, on the principle of Oliver Evans, which employed forty persons, consumed ten thousand bushels of coal, and one hundred and twenty thousand pounds of rags per annum, and manufactured twenty thousand dollars worth of paper annually.

In 1810, there were one hundred and eighty-five paper-mills in the United States, and sixty in Pennsylvania. This same year the United States began to import rags largely from Europe.

In 1820, Congress used paper made on the Brandywine, and this year the first tariff was laid on imported paper, to protect its manufacture in our own country.

In 1827, William Megaw, of Meadville, Crawford county, Pennsylvania, obtained a patent for a mode of preparing hay, straw, or other vegetable substances in the manufacture of paper. It was of a yellow color, but even and strong, and received the ink as common writing paper.

In 1828, paper was made at Chambersburg, Franklin county, from straw and blue grass, according to a patent obtained by William Megaw. Three hundred reams per day were manufactured, at two hundred dollars per ream.

In 1830, Wooster & Holmes, of Meadville, Crawford county, obtained a patent for improvement on mode of making paper of wood, by which one hundred pounds of wood should be productive of from five to seven reams of paper.

The same year, Thomas Gilpin, of Philadelphia, obtained a patent for an improvement in mode of finishing paper, which consisted of calenders or cylinders, between which the paper passed to give it a polished surface.

In 1831, a mill-house, one hundred and fifty feet long by fifty feet wide and three stories high, was erected at Chambersburg, in which it was contemplated to put eight machines for the manufacture of paper.

In 1832, Francis Goucher, of Pennsylvania, took out a patent for improved machinery for washing pulp; and Coleman Sellers, of Philadelphia, a patent for a pulp dresser, for separating knobs and all gross particles from pulp.

A patent for the manufacture of wood paper on a large scale, (although paper was made from wood as early as from straw,) was taken out by Charles Watt and Hugh Burges in England in 1853, and in the United States in 1854. Same year, S. G. Leves, of Delaware county, a patent for improvement in mode of making thick paper. Same year, first newspaper printed on straw paper, in Philadelphia.

In 1855, Henry Fourdrinier, the surviving partner of the great firm engaged in the paper manufacture in England, died, aged ninety years.

The Messrs. Fourdrinier exhausted a vast fortune in perfecting the paper making machine which bears their name, and died in poverty.

In 1856, the consumption of paper in the United States was computed to equal that of France and England together. France produced seventy thousand tons in a year, and England, sixty-six thousand tons, while in the United States, but little advanced in manufacture, two hundred thousand tons were annually manufactured.

In 1857, J. A. Roth, of Philadelphia, patented the combined application of sulphuric acid upon woody fibres, with that of the chlorine bleaching agents. In 1858, Martin Nixon, of Philadelphia, a patent for improvement in the preparation of straw for pulp.

In 1862, paper, of the news quality, increased from nine to twenty-two cents per pound, by reason of action of meeting of paper dealers in New York city. In 1863, duty on printing paper reduced to three per cent., by Congress. Same year, patent for boiler, for making pulp from wood, by M. L. Keen, Royers' Ford, Pa.

In 1864, price of newspaper reached twenty-eight cents a pound, and fine book paper forty-five cents, while eight cents per pound was paid for waste paper. This year, a patent for preparing fibrous material from corn stalks, by J. A. Roth, of Philadelphia. Also, patent for mode of coating (writing) paper, by Richard Magee, of Philadelphia. At this time, an active trade was carried on in Chester county in poplar wood, designed for the manufacture of paper.

In 1865, Congress was memorialized for a removal of the duty on paper, and in view of foreign paper being admitted free, newspaper fell in price eight cents a pound, contracts being made as low as eighteen cents a pound.

In 1867, the mills in the United States had been increased during the last four years nearly one half. Instead of running night and day, as was the custom before 1861, by a combination among the trade, they kept up the price of paper by running on short time. Nevertheless, towards the close of this year, there was a considerable reduction from its maximum, of twenty-five cents per pound to sixteen cents.

In 1868, a French paper stated, that the annual consumption of paper in England was two hundred and twenty million pounds; that France consumed one hundred and ninety-five millions; but that the United States consumed more than both England and France, the total consumption being four hundred and forty million pounds.

In 1868, J. E. Hoover, of Philadelphia, invented a kind of writing paper charged with an earthy carbonate, by which common writing ink, of the palest description, when applied to it became intensely black. It was claimed that it took printing ink more readily, producing a black and smooth impression.

In 1870, the American Wood Paper Company, at Manayunk, in Pennsylvania, introduced an important improvement into their works, by which a saving of eighty-five per cent. of the waste alkali solution was recovered.

In 1870, the manufacture of paper collars, in Boston, had reached during this year seventy-five millions.

In 1871, it is claimed there were nearly one thousand three hundred paper mills in the United States this year.

In April, 1872, the paper mill of Mullin & Parker, of Carlisle, Pa., was burned, involving a loss of forty-five thousand dollars. It was the fifth fire that had occurred since the mill was first built, in 1850.

In paper making, the following list of substances which have been experimented upon, and of which it is claimed that paper has been produced of fair qualities, will show in a measure the extent of the effort which has been made to procure material to meet the increasing demand for paper fabrics:

Animal substances, artichoke, acacia, alga marina, asparagus, asbestos, aspen, aloe, arroche, bulrushes, bamboo, bark, bean vines, bullen of plants, blue grasses, broom corn, Brazilian grass, Bavarian peat, bass wood, bracken, burdock, beech, bagging, banana leaves, bran, beet root, cotton-dupenplier, cabbage stumps, cork, couch grass, clover, cane, cedar, cat-tail, China grass, cotton waste, corn husks, carduus nutans, clematite, conferva, cotton stalks, cocoanut husks, decayed wood, dwarf palm, erigerone, elm, elder, esparto grass, flax, ferns, floss silk, flags, fir, frog spittle, flag leaves, grape vines, gutta percha, guaphalinm, holly-hock, hop vines, hay, hishicus esculentes, horse-chestnut, hemp, hornets' nests, ivory shavings, jute, lily of the valley, leather cuttings, leaves, linden, liquorice wood, muscovy mats, mulberry, moth wort, masse d'eau, marsh mallow, moss, manures, mummy cloth, nettles, old sacks, oakum osier, oak, oat straw, paste board scraps, pine shavings, printed waste, plantain, peat, pampas grass, pine, palm, palmetto, pappus, pea vines, poplar, potato vines, rice straw, raw cotton, ropes, rags of all kinds, reeds, rye straw, rushes, silk, satin, spindle tree, saw dust, stone, Scotch ferns, silk cotton, spruce, sea-weed, sultana bark, southern cane, swingle tow, seratula ervensis, sedge grass, sea weed, spartum, sorgham, Turkish cornstalks, tobacco, thistles, tan, tow, ulva marina, wheat straw, wayfaring tree, willow twigs, willow, white wood, water-broom, wool, waste paper; in short almost everything has undergone a test. Also, the following are some of the chemicals and colors, etc., used in the manufacture of paper:

Aniline colors, alum, aluminous cake, bleaching powders, or chloride of lime, blue vitriol, clay, copperas, indigo, lime, muriatic acid, oil of vitriol, potash, rosin, soda ash, soda-bicarbonate, soda caustic, soda sal-sulphurous acid, and ultra-marine. And not only have numerous patents been procured for useless modes of producing paper from many of the above articles, but costly machinery has been erected to bring them into use. In the perfection of machinery, and the discovery of new materials for paper stock, great results have been attained. In a little more than a quarter of a century, the machines have superseded the diminutive hand mills which sparsely dotted the country, and gigantic establishments have risen up in their places. Paper mill villages have grown out of this flourishing branch of industrial art, and we behold, with satisfaction and amazement, what has been brought, by the aid of a commodity, so insignificant in the eyes of the world as linen and cotton rags.

In all kinds of paper making, whether from the bark of trees or other fibrous matter, or from rags, the general process is the same. The first object is to prepare the raw materials for the process by which they are brought into a pulpy condition. As, for instance, sorting the rags, cutting the rags, dusting the rags, fermentation, boiling in alkaline lye, cut and bruised in water till it is separated into fine and short filaments, and becomes a sort of pulp. This pulp is taken up in a thin and even layer, upon a mould of wire cloth, or something similar, which allows the water to drain off, but retain the fibrous matter, the filaments of which are, by the process of reduction to pulp, and subsequent drying and pressing, so interwoven and fitted together that they cannot be separated without tearing, and thus become paper. But the manufacture of paper, though an interesting process, is difficult to describe intelligibly. Like the art of printing, it has undergone a wonderful change within a quarter of a century, calling into use immense steam and water power and ponderous machinery, that consume the cast off habiliments of the population of the whole world, and now require other material for consumption, to keep pace with the demand for their fabrics. The high price of stock has stimulated experiments with every available material at hand—cane, corn husks, flax, &c. Science is at work endeavoring to furnish an adequate source of supply, from which material for the manufacture of paper could be economically drawn; the vegetable kingdom, especially, has felt the pressure. For a long period, the most economical and most readily obtained supply being the worn out, cast off, tattered garments, clippings, and shreds to feed the paper mill.

Linen or flax has always been a desirable textile, since the manufacture of paper became an art; the use of cotton was merely a matter of economy. Various improvements have been effected for the preparation of flax for the paper mill, so that all obnoxious matter is thoroughly removed from the flax fiber, and a pulp can be made from it free from color, and uniform in quality and general characteristics, so that the finished paper, far superior to that produced from ordinary materials, can be put in market at less than usual cost. This application of flax is certainly, for various reasons, desirable. The annual importation of paper material amounts to a little less than twenty millions of dollars.

Our western States are capable of producing flax in abundance, that would fully supply the demand. Its extensive cultivation on the prairies has been for the sake of securing only the seed, the straw has been cast away, there being no means of utilizing its valuable fiber without transporting the gross bulk, at a cost which made the trouble unremunerative. The annual importation of flax, hemp, and jute, and their manufactures, into the United States amounts to fifty millions of dollars. In the past twenty years, the United States imported flax, and its manufactures, to the amount of *three hundred and fifty-four millions of dollars.* All of which should have been furnished in this country. The wheat crop of this country, in 1873, only averaged fourteen dollars and fifty-nine cents per acre. The yield of flax in this country will double that of wheat.

In 1873, there were three millions of acres in flax, throughout the world. Russia had one million six hundred thousand acres; Ireland, one hundred and twenty-nine thousand four hundred and thirty-two acres, and United States only sixty-one thousand two hundred and four acres, less than one half of Ireland. Of flax and its manufactures, Russia sells to England to the amount of $100,000,000 annually, and to the United States, $25,000,000 annually. As we sell England the most of her wheat, why not supply ourselves and England, also, with flax?

The imports of paper, paper making material of all kinds, books, stationery, etc., at the port of New York, during the year 1874, were: Paper, $789,351; rags, $3,748,368; all other paper making materials, $5,885,296; books, stationery, etc., $2,523,412; total, $12,946,427. The exports of paper, books, stationery, etc., from the port of New York to foreign ports, for the same year, was but $2,134,401. There was a decrease of $916,699 in the value of paper materials imported into the United States last year.

There are forty-five different kinds of writing, drawing, printing, and wrapping papers now in use, of various sizes and names; twenty-six fine varieties, and nineteen coarse varieties. So numerous, however, are the sizes, thicknesses, and qualities of the various kinds of paper, card-board, mill-board, etc., that some of the largest wholesale dealers keep in stock not much less than two thousand different kinds.

In the United States there are twenty-two grades of paper mills, and in Pennsylvania nineteen, as follows: Bank note, one; binders' boards, twelve; book and news, twenty-eight; card and card middles, one; colored papers, one; hanging paper, two; hardware, one; manilla, fifteen; sheathing, roofing, and building, five; straw board, fifteen; straw wrapping, four; tissue manilla, one; wood pulp, one; wrapping, eight; writing, two; collar, one;

envelope, two; blotting, one; and miscellaneous, one. Total, one hundred and two.

In 1870, there were in the United States six hundred and sixty-nine paper making establishments, with an invested capital of $35,780,514; wages paid employés, $7,477,860; value of materials, $31,344,169; value of products, $50,842,435. In Pennsylvania, same year, there were eighty-three establishments; two thousand and thirty-one employés; wages paid, $878,678; value of materials used, $3,837,191; value of products, $6,511,446; capital invested, $5,747,040.

The average wages paid paper mill employés in the United States is about eighty per cent. more than is paid in England.

In the United States, in 1872, there were eight mills idle, and eight hundred and twelve mills in operation; two hundred and ninety-nine Fourdrinier machines; six hundred and ninety cylinder machines; three thousand two hundred and ninety-six engines; capital invested, $37,064,500; product, three hundred and seventeen thousand six hundred and thirty-seven tons; value of products, $66,505,825. Hands employed: Males, thirteen thousand four hundred and twenty-seven; females, seven thousand seven hundred; and children, nine hundred and twenty-two; total, twenty-two thousand and forty-nine. Wages paid, $9,552,146. Mills destroyed by fire, twenty-seven, and forty-two mills in course of construction, July 1, 1873. In Pennsylvania, in 1872, there were ninety-three mills in operation; thirty-seven Fourdrinier machines; eighty-one cylinder machines; three hundred and twenty-five engines; capital invested, $6,847,000; products, thirty-five thousand five hundred and ten tons; value of products, $7,616,375. Hands employed: Males, one thousand four hundred and eighty-three; females, six hundred and forty-seven; children, one hundred and sixteen; total, two thousand two hundred and forty-six. Wages paid, $994,945. Mills destroyed by fire, four, and three mills in course of construction, July 1, 1873.

In 1873, the number of paper mills working with machines in the United States was eight hundred and twelve; in all other countries, fourteen hundred and ninety-seven. Number of machines in United States, nine hundred and eighty-nine; in all other countries, two thousand and forty-two. Total, two thousand three hundred and nine mills and three thousand and thirty-one machines in the world.

Pounds of paper made in United States on machines, six hundred and thirty-five millions three hundred and twelve thousand five hundred; in all other countries, one billion six hundred and seventy millions four hundred and fifty-six thousand two hundred and fifty; total, two billions three hundred and five millions seven hundred and sixty-eight thousand seven hundred and fifty.

Number of mills in United States working by hand, *none;* in all other countries, eight hundred and forty. Number of vats, one thousand six hundred and forty eight. Pounds of paper by hand, ninety-three millions nine hundred and thirty-one thousand two hundred and fifty. Total weight of paper manufactured in the world: United States, six hundred and thirty-five millions three hundred and twelve thousand five hundred; in all other countries, one billion seven hundred and sixty-four millions three hundred and eighty-seven thousand five hundred; grand total in the world, two billions three hundred and ninety-nine millions seven hundred thousand pounds.

Thirty new paper and pulp mills have been constructed in the United States within two years, and during this time eleven mills have been totally abandoned and dismantled. From June 30, 1875, to March 15, 1877, forty-one mills have been destroyed by fire, involving a loss of upwards of a million of dollars. Twenty-two of these mills have been, or are now being rebuilt. Of these mills burned, four were in Pennsylvania, loss $115,000.

The number of paper and paper pulp mills in Pennsylvania in 1877, were one hundred and two; number of firms, ninety-four. In the United States, number of mills, nine hundred and thirty-four; number of firms, seven hundred and ninety-five.

Of the one billion three hundred million human beings inhabiting the globe, three hundred and sixty millions have no paper or writing material of any kind; five hundred millions of the Mongolian race use a paper made from the stalks and leaves of plants; ten millions use for graphic purposes tablets of wood; one hundred and thirty millions, the Persians, Hindoos, Armenians, and Syrians, have paper made from cotton, while the remaining three hundred millions use the ordinary staple. The annual consumption by this latter number, is estimated at one billion eight hundred million pounds, an average of six pounds to the person, which was increased from two and a half pounds during the last fifty years.

To produce this amount of paper, two hundred million pounds of woolen rags, besides great quantities of linen rags, straw, wood, and other materials are yearly consumed. The paper is manufactured in three thousand nine hundred and sixty paper mills, employing ninety thousand males, and one hundred and eighty thousand female laborers. The proportionate amounts of the different kinds of paper, are stated to be: Of writing paper, three hundred million pounds; of printing paper, nine hundred million pounds; of wall paper, four hundred million pounds; and two hundred million pounds of cartoons, blotting paper, &c.

Closely allied with the paper trade, is the art of printing. Their interests are identical. The one could not survive without the other. In this connection, therefore, we append the following brief sketch on

Printing and Newspapers.

It seems that to Italy the world is indebted for the origin of the newspaper. According to the best authorities, a daily journal, called the *Acta Diurna*, was published at Rome, B. C. 661. It was not in the form of a *printed paper sheet*, that is nowadays left at every intelligent man's door in the early morning, nor was it issued in copious editions, and circulated among the subscribers for a stipulated consideration. The *Acta Diurna* was a public enterprise, supported by government, and the few copies struck off in Latin script, upon white wooden tablets, were hung at conspicuous places of the city, and gave to curious passers-by the latest intelligence of current events.

With the downfall of the Western empire journalism perished, and for upwards of a thousand dreary years was one of the lost and forgotten arts.

By Italian genius it was finally revived again, and Venice was the scene of its second birth. There are now in the Magliahechia library, of Florence, thirty volumes of the oldest modern newspaper of which we have any knowledge. It was entitled *Gazetta*, as some say from the work *Gazzero*, signifying magpie or chatterer, and according to others, from the name of the small coin for which the paper was sold. It was published at Venice, once a month, by order of the government, and continued to be written in script, even after printing had been invented. The last number is dated in the sixteenth century.

The earliest French journal was the *Gazette de France*, a newspaper still in existence. It appeared in Paris, weekly, the initial number being issued in April, 1631. It was patronized by the king, Louis XIII., and contained at least one article penned by the royal hand.

The art of printing with movable (wooden) type, was discovered by John Guttenberg, a German, at Strasburg, Germany, in 1438. Afterwards, at Mentz, in 1455, he issued the first copy of the bible, printed in the Latin language, which was executed with cut metal types, on six hundred and thirty-seven leaves, partly printed on vellum. A copy of this bible is still in existence, in the royal library of Berlin.

The first newspaper in the world printed with movable type is supposed to be the *English Murcurie*, printed by authority of Queen Elizabeth, by her printer, Christopher Barbur, in London, on the 23d of July, 1588, copies of which are still preserved in the British Museum. Again, it is claimed that the oldest regular newspaper published in England was in 1662. In France, in 1632. In Germany, in 1656, and in Russia, in 1703. The first printing press in America was set up at Cambridge, Mass., in 1638. The first work which issued from this press was the "Freeman's Call," and the second the "Almanac for New England," both in 1639. The first book printed was the "New England Version of the Psalms," an octavo volume of three hundred pages. In 1676, books began to be printed at Boston, and in 1693, in New York. In the year 1700, there were only four printing presses in the Colonies. The liberty of the press was first asserted on the earth by William Bradford, on his trial at Philadelphia, in 1689.

In 1698, an attempt was made to start a newspaper at Boston, but the first edition was suppressed by the authorities. The first successful attempt to establish a newspaper in America was the *Boston News Letter*, at Boston, Mass., April 24, 1704. It was a half sheet, twelve inches by eight inches in size, two columns on a page, B. Green, printer, and John Campbell, proprietor. The first printing press in Pennsylvania was set up at Philadelphia, in 1686, and the first newspaper printed in Pennsylvania was the *American Weekly Murcury*, December 22, 1719, by Andrew Bradford and John Copson, being the second newspaper in America. The first bible printed in America in a European language, was printed in Germantown, Philadelphia, in 1743, by Christopher Sower, senior. The first newspaper printed west of the Susquehanna river was *Klime's Weekly Gazette*, by George Klime, at Carlisle, Cumberland county, Pa., in August, 1785. The first newspaper printed west of the Allegheny mountains was the *Pittsburgh Gazette*. It appeared on the 29th of July, 1786. There was no mail to the city then, but in September following a post from Pittsburgh to Philadelphia was established by order of the Government. The first newspaper published at Harrisburg was in 1790 or 1791, by Major Eli Lewis, the father of the late Chief Justice Lewis. His paper was probably called the *Harrisburg Advertiser*, for on October 20, 1792, when *The Oracle of Dauphin* appeared, the former name was coupled to it, thus forming *The Oracle of Dauphin and Harrisburg Advertiser*, published by Messrs. Allen & Wyeth, and afterwards continued by John Wyeth.

The completion of the first century of our national existence finds, in the United States, seven hundred and thirty-eight dailies, seventy tri-weeklies, one hundred and twenty-one semi-weeklies, six thousand two hundred and seventy-two weeklies, one hundred and five semi-monthlies, seven hundred and forty-seven monthlies, fourteen bi-monthlies, and sixty-two quarterlies; total, eight thousand one hundred and twenty-nine newspapers alone. While in Pennsylvania there are seventy-seven daily, two tri-weekly, eight semi-weekly, five hundred and thirty-three weekly, seventeen semi-monthly, ninety-three monthly, two bi-monthly, and six quarterly; total, seven hnndred and thirty-eight newspapers, or one to every sixty-two square miles, with an average circulation of two thousand nine hundred and sixteen; and one hundred and sixty-two million five hundred and seven thousand and forty-eight copies are annually printed, making an average of forty-six copies to each inhabitant.

The number of employés in the United States, according to the last census, engaged in the paper interest, was: Mill hands, twelve thousand four hundred and sixty-nine; paper hangers, two thousand four hundred and ninety; rag pickers, four hundred and thirty-six; total, fifteen thousand three hundred and ninety-five.

In the printing interest: Ink makers, seventy-eight; plate printers, two hundred and thirty-seven; stereotypers, two hundred and thirty-three; type founders and cutters, six hundred and forty-nine; die sinkers, four hundred and seventy-seven; and printers, thirty-nine thousand eight hundred and sixty; total, forty-one thousand six hundred and forty-four.

In the publishing interest: Books and stationers, three thousand three hundred and ninety-two; papers and periodicals, one thousand four hundred and fifty-two ; card and fancy paper makers, three hundred and thirty-nine ; publishers, books and maps, etc., one thousand five hundred and seventy-seven ; booksellers and publishers, nine thousand one hundred and four ; total, fifteen thousand eight hundred and sixty-four. Making a grand total of seventy-seven thousand nine hundred and eighteen engaged in the publishing, printing, and paper interest.

NOTE.—In the preparation of this article, we have gathered much valuable material from the "Historical Society of Pennsylvania," "Munsell's Chronology of the Origin and Progress of Paper and Paper Making," and "Lockwood's Directory of the Paper Trade."

INDEX.

A.

Page.
Act for securing health and safety to persons employed in bituminous coal mines, 313–318
American wars, 23
Anthracite coal, 319–445
    wage tables, 680–681

B.

Beneficial fund, Philadelphia and Reading Iron and Coal Company, 435
Bituminous coal, 82–318
    reports of mine inspectors, 201–313
    wage tables, 679–680
Blast furnaces, 500–508
    wage tables, 681–682
Bridge building and wage tables, 685

C.

Calico printing, wage table, 689–690
Carriage factories, 639–641
Coal, anthracite, 319–420
        beneficial fund, Philadelphia and Reading Coal and Iron Company, 435
        employés, production, and value, 423–441
        reports of collieries, 319–420
        statement of shipments from Shamokin region, for 1877, 420–422
        tonnage of collieries leased by Philadelphia and Reading, 431–434
        tonnage of collieries operated by Philadelphia and Reading, 430
        tonnage, expenses, and cost per ton at collieries worked by Philadelphia and Reading, 436–437
        wages paid employés, 424–445
    bituminous, 82–318
        act for securing health and safety to persons employed in mines, 313
        employés, production, and value, 180–186
        new developments, etc., in Tioga and Potter counties, 152–157
        production of semi bituminous, 187
    reports of collieries—Allegheny county, 82–105
        Bradford county, 105–107
        Blair county, 107–109

PAGE.

Coal, reports of collieries—*Continued.*
Cambria county, 109–111
Clarion county, 111–112
Clearfield county, 112–117
Clinton, 117
Elk county, 117–119
Fayette county, 119–127
Fulton county, 127
Huntingdon county, 128
Lawrence county, 128–130
Mercer county, 130–146
McKean county, 147–148
Somerset county, 148
Tioga county, 149–152
Venango county, 157–158
Washington county, 158–169
Westmoreland county, 170–179
reports of mine inspectors, 201–313
first district, William Wilcox, 201
second district, J. J. Davis, 255
third district, W. L. Richards, 282
wages paid in mines, 188–199
Cotton mills, 540–542
wage tables, 688–689
Counties and county towns, 19–20
Counties, organization of, 17–19

D.

DEPARTMENTS, State government, 3–9
heads of, 3–4

E.

EXPORTS, port of Philadelphia, 605–616
tobacco, tables of, 30

F.

FINANCIAL, 59
National banks in Pennsylvania, 59–62
dividends and earnings of, 69–70
resources and liabilities of, 63–68
public debt statement, 74
revenue of the Commonwealth, 71
expenditures, 72
receipts, 71
recapitulation, 73
Fire brick, 639
Foundries and machine shops, 518–532
Furniture, 651

G.

GLASS WORKS, 536–539
wage tables, 686–687
Glue, soap, bone dust, etc., 652

H

PAGE.

HOUSE OF REPRESENTATIVES, members of, ... 12–16
  officers of, ... 16

I.

INSURANCE, ... 75–81
  business done by Pennsylvania life and life companies of other States, ... 80
  business in Pennsylvania, ... 76
  business of Pennsylvania companies, ... 77
  business of 1876, risks written, premiums and assessments paid, and losses paid, ... 79
  condition of companies doing business in Pennsylvania, . . 81
  coöperative life companies, ... 78
  mutual fire companies, ... 77
  Pennsylvania life companies, ... 78
  risks in force, ... 80
  what Pennsylvania pays, ... 75
Iron Trade, ... 500
  blast furnaces, ... 500–508
    employés, capital, wages, etc., ... 509–510
  foundries and machine shops, ... 518–532
    product, employés, capital, wages, etc., ... 533–535
    wage tables, ... 684–685
  rolling mills, ... 511–516
    employés, capital, wages, etc., ... 517–518

K.

KNITTING MILL, ... 653

L.

LABOR REPORTS, railroads, ... 546–591
Lancaster county, production of tobacco, ... 31–32
Lead, ... 634–636
Lehigh valley, ... 592–601
Lightning rods, ... 652
Lumber, ... 654
  mills, wage tables, ... 686
  reports of operators, ... 659–678
  review of trade, ... 654–656
  Williamsport market, annual report, ... 656–659

M.

MINE INSPECTORS, reports of, ... 201–313

O.

OCHRE WORKS, ... 653

P.

PAPER AND ITS MANUFACTURE, ... 818

PAGE.
Paper mills, 487–499
Petroleum, official returns, 24
  statistical tables, 25–29
Philadelphia, 602–618
  international exhibition, 616–618
  port, exports of, 605–616
  wage population—industrial pursuits, 603–604
Planing mills, sash, and door factories, 676–678
Powder, 641–643

R.

RAILROADS, LABOR REPORTS, 546–591
Reading, 629
Rolling mills, 511–517
  wage tables, 683–684

S.

SASH AND DOOR FACTORIES, 676–678
Schuylkill Valley, 618–629
Senate, members of, 10–12
  officers of, 12
Ship building, 646–647
Somerset county, statistical report, 800–805
Slate, 630–634
State government, departments, 3–9
  heads of, 3–4
  House of Representatives, members of, 12–16
    officers of, 16
  Senate, members, of, 10–12
    officers of, 12
Steel, 643–646
Stone-ware, 638
Strikes—Richard Vaux, 33–58

T.

TANNERIES, 446–479
  employés, capital, wages, materials, and production, 480–486
  wage tables, 691
Tobacco, table of exports, 30
  production in Lancaster county, 31–32
Tool manufacture, 650

U.

UNITED STATES historical and statistical table, 22

V.

VALUATION, taxation, and indebtedness, 693–799
  county returns, 694–797
  county returns consolidated, 798–799
Vaux, Richard—strikes, 33

W.

PAGE.

WAGES IN PENNSYLVANIA, ... 679–691
  anthracite coal mines, ... 680–681
  bituminous coal mines, ... 679–680
  blast furnaces, ... 681–682
  bridge building, ... 685
  calico printing, ... 689–690
  cotton mills, ... 688–689
  glass works, ... 686–687
  iron foundries and machine shops, ... 684–685
  lumber mills, ... 686
  rolling mills, ... 683–684
  tanneries, ... 691
  woolen mills, ... 690
Woolen mills, ... 543–545
  wage tables, ... 690

Z.

ZINC, ... 637

ERRATA.

Page 245, under the head of Saltsburg mines, the ninth line should read thus: "The mines on the Mount Pleasant branch were next visited, and were found," etc.

On page 647, the heading, "Furniture," should be inserted before the name of M. Seibert & Co.

On page 650, heading at top of page, should read "Tool Manufactory."

UNIVERSITY OF ILLINOIS-URBANA

3 0112 078167902